MASSACHUSETTS HIGHWAY COMMISSION

YEAR ENDING NOVEMBER 30
1911

OF MASSACHUSETTS
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NINETEENTH ANNUAL REPORT

OF THE

MASSACHUSETTS HIGHWAY COMMISSION,

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1911.

PART I. — STATE HIGHWAYS AND MOTOR VEHICLES.
PART II. — SUPERVISION OF TELEPHONE AND TELEGRAPH
COMPANIES.

JANUARY, 1912.



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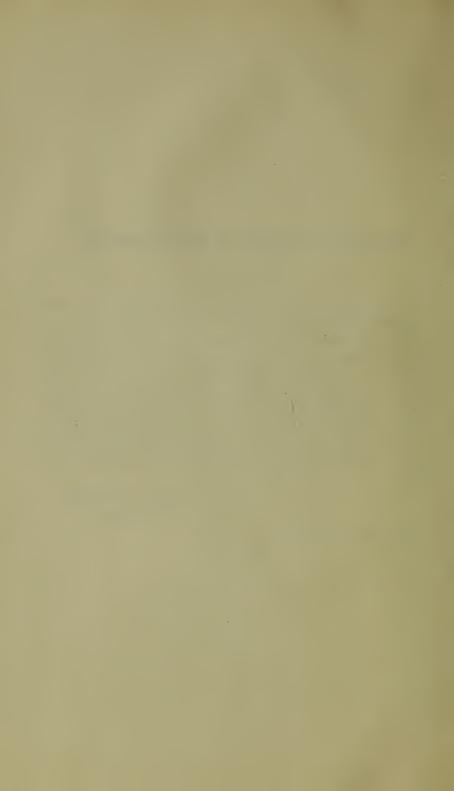
The Commonwealth of Massachusetts.

To the Honorable Senate and House of Representatives of the Commonwealth of Massachusetts in General Court assembled.

The undersigned commissioners, appointed under the provisions of chapter 476 of the Acts of 1893 and of chapter 474 of the Acts of 1900, herewith submit, in Part I., their nineteenth annual report, in accordance with the provisions of chapter 47 of the Revised Laws, and, in Part II., their sixth annual report relative to their supervision of telegraph and telephone companies, under the provisions of chapter 433 of the Acts of 1906; both reports being for the fiscal year ending Nov. 30, 1911.

WM. D. SOHIER. F. D. KEMP.

Boston, Mass., Jan. 2, 1912.



ANNUAL REPORT OF THE MASSACHUSETTS HIGHWAY COMMISSION.

PART I.

RELATING TO STATE HIGHWAYS AND MOTOR VEHICLES.

Mr. Harold Parker, of Lancaster, who was a member of the commission since 1900, and chairman since the spring of 1908, tendered his resignation to take effect on Nov. 1, 1911, having completed eleven years of faithful service to the Commonwealth.

The work of the commission during the past year was much the same as in the last few years. Less time was required for consideration of telephone rates, as fewer complaints were made, and, consequently fewer hearings were given. The number of investigations and hearings in automobile cases increased more than sufficiently to make up for this, however.

Many requests were made by the officials in charge of roads in various cities and towns for engineering advice, and these were complied with as far as possible, though many times there was no engineering force available for making the necessary surveys. When surveys were made by the towns, however, the commission rendered engineering assistance to the extent of preparing specifications and contracts for the work.

A great deal of the time of a number of the engineers was required to make surveys over Florida Mountain and in various other places where work was required to be done by special acts of the Legislature.

HEARINGS.

During the year 240 hearings were given on automobile complaints and accidents.

Public hearings were given on special regulations by municipal authorities affecting the use and operation of motor vehicles in the city of Boston and in the towns of Ashfield, Oak Bluffs and Marblehead.

During the year there were 2 public hearings given on formal telephone complaints, and 15 public hearings on matters relating to the location or relocation of street railway tracks on State highways.

In addition to the regular hearings held in each of the 14 counties, the commission gave hearings on petitions for State highways or for aid in the improvement of town ways in the following cities and towns:—

Abington. Granby. Northampton. North Andover. Adams. Greenfield. Greenwich. Northborough. Amesbury. Amherst. Groveland. North Reading. Ashburnham. Hardwick. Orange. Pembroke. Athol. Harwich. Haverhill. Phillipston. Barnstable. Huntington. Plainfield. Bedford. Plymouth. Bourne. Lakeville. Prescott. Boxford. Lanesborough. Rehoboth. Bridgewater. Littleton. Chelmsford. Revere. Richmond. Chelsea. Mansfield. Rochester. Chilmark. Marblehead. Salisbury. Marlborough. Cummington. Marshfield. Sandwich. Dana. Mashpee. Savoy. Danvers. Seekonk. Deerfield. Mattapoisett. Shrewsbury. Mendon. Dennis. Merrimac. Somerset. Dighton. Southborough. Dracut. Methuen. Southbridge. Eastham. Milford. South Hadley. Millbury. Falmouth. Sudbury. Framingham. Montague. Freetown. New Marlborough. Sutton. North Adams. Grafton. Swansea.

Walpole. Weston. Taunton. Wareham. Williamsburg. Templeton. Williamstown. Topsfield. Watertown. Winchendon. Townsend. Wayland. Webster. Winchester. Upton. West Brookfield. Uxbridge. Windsor. Westford. Wakefield. Worthington.

Besides the formal hearings given at the office or elsewhere to the authorities or representatives of the 99 cities and towns mentioned, one or more members of the commission met the municipal authorities, or went over the roads in connection with work that was desired or requests made, in 185 of the other cities and towns in the Commonwealth.

STATE HIGHWAYS.

During the year ending Nov. 30, 1911, the commission completed work upon 40.37 miles of State highway, part of which was laid out last year and part this year. Construction was commenced also upon nearly 23 miles, but not completed. Forty-two miles of State highway were laid out during the year in 37 cities and towns. The total length of State highway at the end of the fiscal year was 879.60 miles.

The total expenditures by the commission for the construction of State highways since the work began, including the planting of trees, amounts to \$8,012,655.03.

There are now many petitions on file covering a total of about 2,000 miles of road.

CHARACTER OF CONSTRUCTION IN 1911.

Of the 40½ miles of road completed this year, a little over 7¾ miles were water-bound macadam; 5½ miles were of gravel; 4½ miles were of sand, bound with oil; a little over 4 miles were of bituminous macadam, that is, macadam with bituminous binder incorporated in the top course by penetration method; 14½ miles were of water-bound macadam with an oil surface applied, and about 4 miles were of gravel with the top surface bound with a bituminous binder.

LOCATION OF STATE HIGHWAYS.

The commission last year continued its policy of filling in the gaps in the main lines of travel throughout the Commonwealth. It has been building, generally, in the smaller and poorer towns, where the roads are on main lines which are much used for through travel between the larger cities and towns in the Commonwealth and by tourists from other States.

It built on the main line toward Provincetown and extended the road toward Woods Hole, and also in Mashpee to connect Falmouth with Barnstable. Allotments were made for work on the road running north from the city of Pittsfield; on the road between Pittsfield and Springfield; also on the road between New Bedford and Taunton, and between Fall River and Providence. Considerable work was done on various routes leading from Boston to the north, west and south and to the Cape; also on the road north and south through the Connecticut River valley, on the roads between Worcester and Fitchburg, between Providence and Worcester, and from Fitchburg to the New Hampshire line. Work was also done along the Merrimac River to connect the northern cities with the seashore in Salisbury, as well as on several other secondary routes.

"SMALL TOWN" ROADS.

The sum of \$80,784.89, a portion of which was money allotted in 1911, and the remainder money carried over from former years which had not been expended, was spent during the past year on the so-called "small town" roads for their improvement. Nearly 46 miles were constructed during the year in 80 towns, and contracts were made for the construction of 8 miles in 17 other towns where the work has not been completed. Since work of this character was first started, a total of over 265 miles has been improved at a total cost of \$482,287.67.

The commission has heretofore co-operated with many towns under the "small town" act in improving sections of road upon what might be called secondary lines of travel, which were of benefit to the towns themselves and served as feeders to the State highway system.

The commission has available annually \$25,000 for use in the "small towns" of less than \$1,000,000 valuation, which make no contribution, \$25,000 for use in similar towns which contribute an equal amount, and \$25,000 for use in towns of over \$1,000,000 valuation, which contribute an equal amount.

For the last few years there has been so much interest in good roads in the various towns that the commission has not had nearly money enough available to meet the appropriations which were made by the towns themselves. In some instances, three times as much money has been appropriated as the commission was able to meet, and in consequence the towns' allotments have lapsed and the roads have not been improved.

The commission feels that it might be wise for the Legislature to consider the advisability of making more money available for this class of work, for the reasons which are more fully set forth in its recommendations for legislation.

As there has not been sufficient money available to meet all the demands made upon it, the commission has, in the main, adopted the policy of first complying with the requests of the smaller and poorer towns, which were not on through routes and where no State highway money had been appropriated, and also the towns where very little or no money had been allotted in the past. It has felt that this policy was the only fair and just one, because there are a very large number of towns in the Commonwealth which cannot possibly afford to build or maintain such roads as the community absolutely needs, and where the roads are not on the through lines of travel they cannot be aided from the State highway money or from the money available from the motor vehicle fees fund for use on through roads in towns.

MAINTENANCE.

With the increasing length of State highways, the increase in the through travel by automobile, and the rapid increase in the use of motor trucks for long distances in and out of the larger cities, the question of maintenance becomes of more and more importance.

During the year the commission spent something over \$500,-000 in the maintenance of State highways, \$200,000 being pro-

vided by direct appropriation by the Legislature and something over \$300,000 being made available under the motor vehicle fees act.

It has been necessary to resurface many miles of State highway, especially those subjected to much automobile travel. On the through routes this has almost invariably been done with the use of some bituminous material.

The commission spent for the use of bituminous materials, and bituminous resurfacing with a surface coat or otherwise, as much money as the total amount available from the motor vehicle fees fund for the maintenance of State highways.

BITUMINOUS MATERIALS USED.

It has become more and more evident year by year that with the increasing automobile travel it is absolutely essential on the main through routes, at least, and on any roads that have many of these vehicles traveling over them, that some bituminous binder should be used to prevent the road from raveling, and that probably it will be more economical in the long run to incorporate the bitumen in the top course of stone. The application of these materials under pressure has been found to produce better and more uniform results than were secured by the old gravity method.

The commission has also been successful in applying some of the extremely heavy bituminous materials with a pressure distributor, the pressure being provided by an ordinary air pump operated by steam from the traction engine. This has been applied in grouting as well as in surface treatment, and it seems probable that in the future it may be possible to use some of the more lasting bituminous materials containing large quantities of asphalt by this method and thus secure more permanency in both construction and surface treatment.

BITUMINOUS MATERIALS USED.

During the past year the commission used over 1,500,000 gallons of various bituminous materials in the construction and surfacing of its roads, including various tars, tarvias and asphaltic oils sold under different trade names. The tars and oils

used conformed to the requirements of certain specifications. Samples were analyzed by Mr. H. W. Clark, chemist for the State Board of Health, at the State laboratory at Lawrence, some 240 samples being analyzed during the year.

Mr. Clark reports that, from a laboratory point of view, the materials were rather better during the past year than formerly; that there was, however, altogether too much variation between the different lots of what purported to be the same materials, sold under the same trade name, and that altogether too many of them frothed badly when heated. This lack of uniformity in the materials is largely responsible for the fact that while some of the roads on which these materials were used are now in very good condition, others are not. For instance, one asphaltic oil, used at Tyngsborough, had a viscosity of 390, while an oil sold under the same name used at North Truro had a viscosity of 540, and some used at Groveland had a viscosity of 590. Another asphaltic oil varied in viscosity from 240 (in Southborough) to 340 (in Chester). Further details may be found in the report of the chemist, which is printed in the Appendix.

During the year 1911 about 240 miles of road received either a bituminous surface treatment or were resurfaced with a bituminous top. Some of these roads had been treated the previous year. The commission spent for work of this character \$310,000.

Up to Dec. 1, 1910, over 308 miles of road had received one or more surface applications of oil. It will therefore be seen that about 60 per cent. of the State highways have either been built or have been given a surface coating of some bituminous material.

Some of the sections that were treated with oil or tar two or three years ago have had to be retreated. On the other hand, some roads which had considerable automobile travel were treated with a surface coating of asphaltic oil three years ago and are now in very fair condition, nothing having been done to them since except to patch the holes.

It now seems to the commission that a surface coat of asphaltic oil would not prove to be economical or satisfactory on a road which has a large amount of heavy teaming, though it is satisfactory, or has been up to the present time, on roads which have a large amount of high-speed automobile travel, with but few heavily loaded teams.

The State highway in North Beverly was given a coat of heavy asphaltic oil, one-half gallon to the square yard, in the summer of 1910, but it did not wear satisfactorily. It began to wear out first on the north side of the road, where the heavily loaded ice teams traveled. The other side of the road, where they returned empty, remained in fairly good condition for a longer period of time. By the end of the season the oil was pretty well ground up and was almost entirely gone over the traveled portion in the center of the road. A large number of heavily loaded ice teams passed over this road daily, starting at the ice houses beyond North Beverly. This piece of State highway and many miles beyond, on the road to Newburyport, were treated in exactly the same manner with the same quality of oil. The whole road beyond the ice houses has been and is now in entirely satisfactory condition, showing conclusively that it was the teams cutting through the oil and down to the stone which churned it up into mud and then carried it off of the road. This year a reasonably satisfactory road was secured by applying a coat of one-quarter of a gallon of light asphaltic oil to the square yard. This light oil apparently fluxed back a part of the oil left on the road.

In general, other failures, not due to excessively heavy team travel, have been due to the qualities of the materials themselves, though in some cases they have been due to faulty application or to the fact that the road was not properly cleaned before the oil was applied.

It seems probable now that quite a few miles of the roads which had a surface treatment three years ago will only require extensive patching to carry them through another season, and that on others a little patching and a coat of one-quarter of a gallon of asphaltic oil to the square yard, instead of the half gallon which was first applied, will be sufficient to carry them through two seasons more.



Macadam Road with Oil Surface, Lakeville.



THE USE OF AUTOMOBILE FEES IN IMPROVING THE THROUGH ROUTES IN THE SMALLER TOWNS.

Twenty per cent. of the net amount available from the automobile fees was, by chapter 525 of the Acts of the year 1910, made available for use on through routes in the towns. This has enabled the commission to improve and aid in the improvement of many miles of road of much value to the automobilists and, in many instances, where the roads were of little value to the inhabitants of the towns.

Newburyport Turnpike.

Nearly \$18,000 has been spent on the Newburyport turnpike from this source, and \$600 has also been spent by the town of Newbury on the same road. This money was expended in the towns of Saugus, Lynnfield, Peabody, Danvers, Topsfield, Ipswich, Rowley and Newbury. About 26 miles of road have been partially constructed, repaired, improved and put into reasonable condition.

It may be possible to put in a little more money next year and improve the remaining bad sections of the road. The commission also hopes to be able to establish some system of constant maintenance, with the co-operation of the towns.

Northampton-Pitts field.

This is a secondary route to the Berkshires. The sum of \$21,250 has been allotted by the commission from the motor vehicle fees fund, and work has been done in Williamsburg, Goshen, Cummington, Windsor and Hinsdale. The towns contributed \$2,600 besides what the State put in, Williamsburg giving \$1,600, Cummington \$500 and Windsor \$500. The commission has also for use on this road a special appropriation of \$10,000, made by the Legislature of last year. There are about 34 miles which should be constructed, repaired or improved on this road.

The work done in Williamsburg was done by the town and is deserving of special mention. It is of macadam and is a fair example of the water-bound type.

Quite a strip of gravel road was built in Goshen and a long stretch of the West Cummington road was improved.

The commission plans to use most of the special appropriation in improving the East Windsor Hill road. This is the worst section between Northampton and Pittsfield. It will be some years, however, before all of this road can be put in good condition, if the work is to be done from funds such as are now at the disposal of the commission.

Shelburne Mountain.

The commission has allotted \$5,500 from the motor vehicle fees fund, the town of Greenfield appropriated in 1910 and 1911 \$4,300 and the town of Shelburne \$2,000 for use on this road. There is also a special appropriation of \$10,000 available.

The commission has let a contract in connection with the money appropriated by the town of Greenfield, allotting onehalf of the special appropriation to be spent in that town for building the road on the Greenfield end, so that it will connect with the improvements which were made last summer on Shelburne Mountain. The other \$5,000 of the special appropriation will be spent, with any money that the town of Shelburne may be willing to contribute, in improving the road on the Shelburne side of the mountain as far as the money will go. There will still be left, however, a good many miles of poor road upon this route. This season the work was practically completed from Green River bridge in Greenfield to a point about one mile west of the Shelburne-Greenfield line. This is a very expensive road to build, and any money appropriated by the town or State will serve to make available sooner a now unsafe way. This is a part of the Boston-Greenfield-North Adams route.

Provincetown Road.

During the past year the commission continued the work which it began in 1910, and allotted money from the automobile fees for the improvement of the road to Provincetown. It has improved the grade upon five of the worst hills upon this road, making a sand-and-oil road, and has continued with one gang

of men which worked all the time, continuously, in improving the worst sections. It has spent in this work \$13,245. The work was done in the towns of Wellfleet and Truro.

Truro.

The Legislature last year made available a special appropriation of \$500 for use in the town of Truro on the road leading along the beach to Provincetown, and this money was spent by the commission in connection with the other work above mentioned.

Connecticut Valley.

The sum of \$14,675 from the motor vehicle fees fund has been spent in the Connecticut valley in improving various stretches of poor road which it did not seem desirable at the present time to include in the State highway system. This money has been spent in the towns of Amherst, East Longmeadow, Deerfield, Whately and Wilbraham, on various important through roads.

Worcester-Athol.

There is a secondary through route leading from Athol to Worcester and to points on the Cape and in Rhode Island. The commission has allotted \$5,500 on this route, the money being spent in Barre and Athol, the town of Barre contributing \$4,500 and the town of Athol contributing \$1,000.

Hudson (N. Y.)-Pittsfield.

The commission has allotted \$5,000, and the towns and individuals have contributed \$2,000, to build a short stretch of road in the town of Egremont to connect with the New York State highway.

The State of New York constructed a State highway, over 20 miles in length, from the town of Hudson to the Massachusetts line, in the town of Egremont, and in order to improve the grade it built around the hill, ending at the Massachusetts line in a bank some 10 feet high, so that the road would be of no possible use unless a short piece of road were constructed to

connect with the existing road in New York State. The commission is therefore building the short section of road necessary to connect with this road.

Some of the other places in which part of the automobile fees has been used are Templeton and Winchendon, on the road to the New Hampshire line; Becket and Lee, keeping the so-called Jacob's Ladder road to Pittsfield in reasonably good condition; and Montague, on the main road between Greenfield and Fitchburg.

The balance of the money was spent on various important through routes, sometimes small amounts being used to improve bad underpasses under railroads and on approaches to bridges, where the commission felt that no State highway should be laid out because of the dangerous condition of the underpass or crossing.

The total amount appropriated in 1910 and 1911 was over \$107,000. The total amount contributed on the same routes by the towns was \$21,000, and the special appropriations which were made for these same roads brought the total amount available up to \$134,943.65.

CONDITION OF STATE HIGHWAYS.

Speaking generally, the condition of the State highways at the end of the year 1911 was better than it had been at any time in the past. There has not been enough money available to enable the commission to resurface or even to surface with a bituminous material many miles of State highway in various parts of the State that required such treatment, nor has there been money enough to even adequately maintain them. It has been necessary to adopt the policy of making the money available go as far as it would, and take up first the more important reads and those that were most in need of treatment or were deteriorating most rapidly.

On about 42 miles of road the commission had to use a thin coat of light oil which would only last a part of the season, in order to prevent them from raveling too much. It hopes, however, that by the end of next year it will have almost all of the roads upon the main through lines treated with some bituminous

Gravel Road, Maynard.



material which will prevent them from being unduly damaged by the automobile travel. It has already so protected most of the more important roads on the through routes.

BRIDGES AND CULVERTS.

Most of the bridges built during the year have been of reinforced concrete. A detailed account of them will be found in the chief engineer's report.

The commission also furnished plans for a bridge which was built by the Norfolk county commissioners.

WORK UNDER SPECIAL ACTS.

Florida or Hoosac Mountain Road.

The Legislature of 1911 appropriated \$75,000 to improve the road from the North Adams-Florida line to the Deerfield valley. Soon after the money was made available the commission's engineers began studying this proposition, and they have made surveys of various routes with a view to getting the easiest possible grade over what is undoubtedly the finest scenic route in Massachusetts.

Leaving the present highway at the top of Whitcomb's Hill, the proposed road bears south toward Cold River, and follows a line which meets the old highway at a point not far from Charlemont village. The route from the North Adams line to Charlemont village is about 14 miles in length, and involves the construction of but one bridge. This line shows a maximum grade of about 7 per cent., and eliminates the terrors of the narrow and steep climb which at present exists from Hoosac Tunnel village to Florida village.

Just what this contemplated road will cost, the commission is as yet unable to state, but if it develops that the funds available are insufficient the commission will so inform the Legislature at no very distant date. It believes that the great and General Court should be informed before the work is begun, in order that any further instructions which seem advisable may be given.

Highway in the Town of Salisbury.

Under chapter 746 of the Acts of the year 1911 the commission was authorized and directed to lay out and construct, within one year from the passage of the act, a highway between the marshes and the beach in Salisbury, 60 feet wide, provided that the owners and abutters should release all claims for damages for land, construction, changes of grade, sloping, etc., and that such releases were duly executed before said highway was constructed or any land taken therefor. There has been some difficulty in securing the releases as required by the act, and the commission is now informed that probably they cannot be secured unless some change is made in the location.

Under the peculiar wording of the act it would seem that it might be interpreted to mean that the commission was ordered to lay out and *construct* a highway 60 feet wide. The amount authorized to be expended on said highway was only \$15,000. A highway 60 feet wide could not be constructed for anything like that sum of money.

It seems that there might be a delay in securing the releases, and if it is the desire of the Legislature that the commission should build this road, the time should be extended, and the act should be so amended as not to require a specified width, but, for instance, a layout of 50 feet, or of such width as the commission may deem sufficient, and it should be provided that the traveled way should be constructed of such width as the commission may determine to be requisite and necessary. It seems evident that there is not the slightest necessity for the construction of a way 60 feet in width at that particular place, and that the standard State highway width of about 21 feet would be amply sufficient.

Revere Traffic Road.

Under the provisions of chapter 646 of the Acts of 1910, the commission was authorized to expend the sum of \$125,000 during that year in purchasing, or taking by right of eminent domain, land in the town of Revere, from a point at or near the junction of Ocean Avenue and Revere Street to a point at or near the Point of Pines station, adjoining the metropolitan

boulevard, for the purpose of securing a 60-foot location for a highway.

As the commission reported last year, it had careful surveys and studies made of the whole situation, as the location of the road would be largely determined by the question of what was to be done on any extension thereof on the west side of Revere Street.

By chapter 557 of the Acts of 1911, the time was extended, at the suggestion of the commission, so that the money should be available for a longer time.

The commission directed Mr. Ralph S. Bauer to see what could be done in the way of securing options, and it is evident that options cannot be secured for the amount available, \$125,000, if a road is to be built between the Revere Beach & Lynn Railroad and the beach. It might be possible to secure the land upon the other side of the railroad if a bridge were built across the railroad.

It also appeared that the Boston & Maine Railroad had a very wide location along the marshes, some of which might be desirable as a location for a highway, and several projects were presented to the Legislature, looking to the construction of a tunnel to East Boston and the construction of the main line of the Boston & Maine Railroad through this section of the country.

It seemed evident that if the railroad were to be constructed in this place, very large and extensive changes would have to be made in the location of the various railroad tracks, and that if a traffic road were to be constructed at this point the work should be done in conjunction with the work done by the railroad company, or so that it would not interfere therewith.

It might also be possible to make some rearrangement of tracks at that point whereby the highway could be located upon land now under the control of either the Boston & Maine Railroad Company or the Revere Beach & Lynn Railroad Company, provided any part of that location was found to be unnecessary for railroad uses.

The commission, therefore, has done nothing further in the matter, thinking it better to wait until it is more certain what the future development of that section of the country is to be.

Marblehead Breakwater.

Under the provisions of chapter 578 of the Acts of 1910, \$50,000 was appropriated for the construction of a breakwater and highway along the causeway connecting Marblehead and Marblehead Neck. The commission reported last year that it had prepared plans for a concrete sea wall on the ocean side and a concrete face on the masonry wall on the harbor side, with a roadway between at an elevation greater than the old road.

When last year's report was written the work was in progress. It was completed early in the spring of 1911, and the commission thinks that the town authorities and the public are very well satisfied with the result.

Poles and Wires upon Highways.

With the increase in the number of poles located upon the highways, not only for telegraph, telephone and street railway wires, but also for street lighting, and especially for wires carrying high tension electrical currents, many new difficulties have arisen. The high-tension current wires, especially if located near the telegraph and telephone wires, cause induction and seriously interfere with, if they do not entirely destroy, the service that is rendered over the telegraph and telephone wires. Also, in some cases, it is dangerous to the repairmen when the high-tension wires are so located that they might be touched inadvertently, or if they happen to break and charge any of the other wires with a current of dangerous voltage.

Believing that this matter is one of great importance, and that it should be possible to secure some standard specifications, not only as to the construction, but also as to the location of the various poles and wires and their distance from each other, the commission has taken the matter up with several of the larger companies, to secure suggestions as to what would be the best method of location and construction, and it intends in the near future to attempt to draw some standard specifications which will be applicable to all highways and to the location of poles and wires thereon.

It is believed that some such specifications are needed, not only on State highways, but on all the highways throughout the Commonwealth where poles are located.

TREES ON STATE HIGHWAYS.

Insect Pests.

During the past year the work of suppressing insect pests on all State highways east of the city of Worcester was done under the direction of the State Forester, Mr. F. W. Rane, this arrangement being a continuation of that of several past years. The results obtained have been most satisfactory.

Under authority given last year, the trees have been sprayed not only to exterminate the gypsy and brown-tail moth, but also to prevent their devastation by the elm-leaf beetle. The presence of that pest has made it necessary for the commission to spray trees in many places, especially on the Cape and in the western part of the State, where work had not been necessary before on account of brown-tail or gypsy moths.

Forester's Department.

The work of preventing the ravages of insect pests, west of the city of Worcester, was in charge of the forester of the commission, Mr. E. W. Breed, whose report will be found in the Appendix. Under his supervision work was done in some 30 cities and towns.

Since the work of planting trees on State highways was authorized, 15,217 trees have been planted on the borders of the highways. These trees have been planted in 63 towns.

The commission is also preparing, as far as possible, to use hedges or quick-growing trees to replace guard rails, as it believes that it will be more economical to protect the roadsides with trees or strong hedges than to maintain and paint guard rails which are continually decaying.

Trees in the Nursery.

There are now 561 trees on hand in the nursery, of fair size for planting, and 4,956 smaller trees which are being developed for future use.

SUGGESTIONS FOR LEGISLATION.

Some law should be passed to prevent undue damage to highways by traction engines, heavy motor trucks, etc.; and when any serious damage is done by any person to a highway, such person should be required to repair the same, or the cost should be recovered by the authorities in charge of the repair and maintenance of the road.

The commission suggests the passage of a law providing that no person shall operate upon the highways in this Commonwealth any vehicle with wheels so constructed as to cause any unusual amount of damage to such highways, and that no traction engine, motor truck, or other vehicle shall be operated on the highways, having upon the wheels any clamps, ribs, or other device which may cut into or injure the road surface.

Motor vehicles are being run at comparatively high rates of speed and constantly increasing weights. Traction engines are likely to become numerous in this country, and many of them are fitted with steel clamps or ribs which, with the weight of the vehicle (from 6 to 18 tons), cut directly into the surface of the highway, whether constructed of macadam or bituminous material. With an increase in this traffic in the future, many of the bridges in the Commonwealth, especially in the poorer towns, will be found insufficient; such bridges are likely to be destroyed and accidents may happen thereon.

The commission suggests that the Legislature consider whether it would not be advisable to have some law regulating the weight of the vehicles, the kind of wheels that should be used, and the speeds at which such vehicles should be operated.

It might be well to have a law providing that no traction engine, motor vehicle or other vehicle of greater weight than 6 tons, including the vehicle and load, shall pass over any bridge insufficient to carry that weight, and that any damage to such a bridge shall be paid by the owner of the vehicle, provided the authorities post notices to that effect at such bridges. The law might also provide for the issuing of permits allowing heavier vehicles or weights to be moved.

The commission suggests that an act be passed in 1912, substantially in the form in which it has been passed heretofore (in 1902 and 1907), appropriating the sum of \$5,000,000 for the use of the commission for the construction of highways for the five years beginning with the year 1913, one-fifth of said appropriation to be made available each year.

Under the act of 1907, the amount of \$500,000 a year has been available, since the year 1908, for the construction of State highways and the improvement of roads in so-called "small towns." The increased appropriation is suggested for the reason that the appropriation of \$500,000 a year is inadequate, in the opinion of the commission, to enable it to complete the main important through lines of travel within a reasonable length of time.

In this connection it should be remembered that many of the neighboring States are appropriating very much larger sums of money than are available in this State, and are, therefore, building main lines of highway much more rapidly.

The commission is informed that the highway commissioner of Connecticut has \$3,000,000 available for work in 1912, and at the end of the year will have spent more money than the State of Massachusetts. New York has appropriated \$50,000,000 for a period of ten years, making \$5,000,000 available each year, and the commissioners of that State have stated publicly that they will have \$22,000,000 available for work during the ensuing year. This will enable them to build several lines of road to the Massachusetts boundary, where this Board will be utterly unable to connect with the New York roads. The State of Rhode Island, from time to time, has appropriated quite large sums of money, considering the size of the State, and has most of its important main through lines of road almost entirely completed.

Even with the \$1,000,000 a year suggested, the commission cannot, of course, compete with the States that have so much money available, but the money could undoubtedly be spent economically, without any large increase in the office expenses or any proportionately large increase in engineering, due to

the fact that longer sections of road could be laid out and constructed at a given time. This money would enable the commission to complete or come near completing several of the most important through routes, filling in the missing links.

It must be remembered that the automobiles are paying a large sum into the State treasury, nearly \$400,000 a year being available for the maintenance of State highways and for the construction, improvement and repair of through roads in the smaller towns. If Massachusetts roads are to maintain the same reputation in the future as they have had in the past, it will be necessary to make this money available. Perhaps of equal importance is the money which would thereby be made available for work in the so-called "small towns," where it is manifestly impossible, with the money available, to build State highways. Under the highway act 15 per cent. of the money appropriated is available for the improvement of roads in such towns, and this money has, in the opinion of the commission, been of great value, not only to the towns themselves, but to the traveling public, by reason of the excellent facilities afforded in providing for connections with State highways.

During the past few years the commission has not had nearly enough money available to meet appropriations made by towns desiring aid, under the provisions of the statute whereby certain municipalities making appropriations for particular roads can be allotted an equal amount from the State. If \$1,000,000 a year is made available, the commission will be able to meet more propositions of that kind, and thus not only provide good roads, but also aid greatly in instructing the towns as to the best methods of using the money that they have.

The commission feels that in many cases where serious automobile accidents occur in other States, in which Massachusetts operators, licensed by this Board, are involved, it would be desirable for the commission's investigators to go into those other States and investigate the causes of the accidents and make reports thereon.

As the question has been raised as to whether the expense so incurred was authorized without special authority from the Governor and Council in each instance, the commission would suggest that it be authorized by law to incur such expense, the amount to be charged to the automobile fees.

AUTOMOBILE DEPARTMENT.

Examinations for Licenses.

The examiners of the commission held 6,152 examinations during the fiscal year of 1911. This was an increase of 719 over the preceding year.

Four thousand, six hundred and forty-eight persons were examined, of whom 4,119 finally succeeded in passing the examinations and 529 failed. One thousand, four hundred and twenty-four persons failed upon their first examination, or over 31 per cent., and over 11 per cent. did not succeed in passing at all. Almost all of the failures were upon the road test.

More than half the examinations were held in Boston, and the balance in Brockton, Fall River, Fitchburg, Lowell, New Bedford, Pittsfield, Salem, Springfield, Worcester, Oak Bluffs and Lawrence. Further details will be found in Appendix B.

Automobile Accidents and Investigations.

The table below shows the accidents in which automobiles have been involved, of which the commission has had any notice through the press, or otherwise, for the fiscal years of 1910 and 1911:—

Deaths, Injuries, Accidents.									1911.
Total numbe	r killed, .							77	110
Total numbe	r injured,							963	1,248
Total numbe	r accidents,							1,182	1,531
Total number	r accidents	in d	ay time	·, .				867	1,098
Total number	r accidents	after	r dark,					315	433
Total number	r accidents	on c	ountry	roads,				222	280
Total number	r accidents	on c	eity or	town	stree	ts,		960	1,251

Of the total number killed or injured in 1911, 538 were occupants of automobiles, 584 were pedestrians, 73 were bicycle riders, 154 were occupants of carriages and 9 were street-car passengers.

It is interesting to note that the number of accidents on country roads was 314 in 1909, 222 in 1910 and 280 in 1911. The number of automobiles registered has increased from 31,360 in 1910 to 38,907 in 1911.

Death Cases.

Our investigators have investigated 114 deaths, 110 of which occurred in Massachusetts, 2 in Connecticut and 2 in Maine, Massachusetts operators having been involved in the 4 cases investigated in other States.

One of the 110 deaths was a case of asphyxiation by gasoline fumes.

The more serious accidents have been investigated, reported on by the investigators, and acted upon by the commission, and the investigators made 39 prosecutions in court.

In July the commission found it necessary to appoint another examiner.

Further details of the work of the investigating department will be found in Appendix B.

Court Abstracts.

During the year 1911, 3,322 abstracts of court records were received from the courts, against 3,706 in 1910. These records came from 68 of the 83 courts in the Commonwealth. In many cases it has been necessary to communicate with the clerks of the courts in order to secure these abstracts of their records.

The abstracts show that 2,911 persons were convicted of violations of the automobile law, and 104 were found not guilty, 305 cases were appealed, 572 complaints were placed on file, and 102 were nol prossed. Eighteen defendants were defaulted and 8 were committed to imprisonment. The complaints were as follows:—

For	manslaughter,							2
	overspeeding,							910
For	reckless operati	ing,						94
For	operating while	into	xicat	ed.				25
For	using automobil	le wi	thout	auth	ority,			41

For failing to give signal when approaching intersecting way,

. .

For miscellaneous offences,

1,165

203

The abstracts show that \$26,537 was imposed as fines and \$2,182 for violations of the metropolitan park rules. Of course, all of this amount was not, necessarily, collected, as many cases were appealed.

Special Regulations.

Only four hearings were held on special regulations made by the municipal authorities, one being in Marblehead, which was a request to make one of its streets a one-way street, to avoid collisions at a dangerous corner.

One town which had excluded automobiles from particular roads cancelled those regulations on most of the roads from which motor vehicles had been excluded.

Automobile Hearings.

These hearings are held either upon complaints or as a result of investigations made by the commission's investigators, or at the request of the operators whose licenses have been suspended or revoked. They have occupied the entire day each Wednesday and often other days in the week as well. During the past year the commission has held 240 such public hearings.

In addition to these hearings, the commission receives every week a large number of reports of investigations made by its investigators, and these are read and acted upon by the commissioners. There were 504 such reports made this year as against 429 last year.

360

Suspension and Revocation of Licenses.

Below is a summary of the action taken by the commission in the various cases, and the causes of said action.

Action taken on Formal Complaints after Hearing.	
Licenses revoked,	4
Licenses suspended,	11
Registration certificate cancelled,	1
Complaints placed on file,	8
Complaints dismissed,	8
Operators cautioned,	3
Total hearings on formal complaints,	35
Suspensions and Revocations.	
Licenses revoked,	95
Licenses suspended,	254
Licenses cancelled,	3
Registration certificates suspended,	2
Dealer's registration certificate suspended,	1
Motor cycle registration certificate revoked,	5
m , 1	
Total suspensions and revocations,	360
Suspensions and revocations resulting from court convictions,	75
Suspensions and revocations resulting from court convictions, Suspensions and revocations after hearings on formal com-	10
plaints,	15
Suspensions and revocations after investigation, on which hear-	10
ings were given in some cases,	270
mgs word grown in some cases,	
	360
Causes of Suspensions and Revocations.	
Reckless operation,	41
Operating while under influence of intoxicating liquor,	14
Refusing or neglecting to stop after accident,	8
Accidents resulting in death,	95
Improper operation,	137
Three overspeeding convictions,	2
Operating automobile without owner's permission,	24
Improper person,	21
Other offences,	18
	260

Deaths.

There were 105 accidents which occurred in Massachusetts resulting in 110 deaths, and 2 accidents which occurred in other States, and in which Massachusetts operators were involved, resulting in 4 deaths; making a total of 107 fatal accidents investigated by the commission. In 3 of these cases 2 operators were involved, making a total of 110 operators whose cases were considered. These were disposed of as follows:—

Registration certificate revoked, the owner having no lic	ense,	. 1
Licenses revoked,		. 15
Motor cycle registration certificates revoked,		. 2
Licenses suspended, and reinstated after investigation and	l hear	_
ing,		. 62
Licenses suspended, final hearings pending,		. 14
Motor cycle registration certificate suspended, final h	earing	g
pending,		. 1
No action, because of death of operator,		. 5
No action, because operator had no Massachusetts license,		. 10
,		
		110

Automobile Fees.

During the year 1911, 38,907 automobiles and 3,658 motor cycles were registered. Besides these, there were 870 manufacturers' and dealers' registrations issued.

The amount of fees collected from the automobiles was \$380,760, an average fee of \$9.78 each.

From the 870 manufacturers' and dealers' registrations, \$24,849 was collected.

From the 3,658 motor cycles \$7,030 was collected, and \$64,778.95 was collected in operators' license fees, etc.

During the year 51,950 operators' and chauffeurs' licenses were issued or renewed.

The total amount collected from registration fees, license fees, sundry receipts, etc., was \$477,417.95. From this amount had to be paid the cost of number plates, salaries of clerks, investigators, examiners, etc., in the automobile department, as well as many other expenses. Eighty per cent. of the balance of the money is by law available for the repair of State high-

ways, and 20 per cent. is available for the repair, improvement and construction of roads on through routes of travel in the towns, under authority of chapter 525 of the Acts of 1910.

EXPENDITURES.

The following is a summary of the expenditures of the Massachusetts Highway Commission from Dec. 1, 1910, to Nov. 30, 1911:—

CONSTRUCTION EXPENDITURES.

	rown (OR ·	CITY.			Amount.	Totals.
	arnstab	le C	County				
Barnstable,						\$7,203 51	
Bourne, .						7,323 32	
Brewster, .						27 85	
Chatham.						17 61	
Chatham, . Dennis, .						17 61	
Dennis, . Eastham, .						1,712 18	
Falmouth, .						2,618 78	
Harwich, .						1 14	
Mashbee						7,063 06	
Orleans, .						6 25	
Sandwich						4,925 59	
Orleans, Sandwich, . Yarmouth (no	orth).					11 35	
Yarmouth (so	outh).					21 04	
	//						\$30,949 29
B	erkshir	e C	ounty.				
Adams						\$4,885 93	
Cheshire, .						5,555 91	
Hancock, .						6 53	
Hinsdale, .						1 14	
Lee,						5 23	
Lee, Lenox,						5 34	
Lanesborough	1			٠.		14,542 80	
North Adams	s, .					14 20	
Pittsfield, .						14 20	
North Adams Pittsfield, . Richmond, .						6 53	
Stockbridge,						2 39	
Williamstown	1, .					5 11	
							25,045 31
	Bristol	Co	unty.				
Attleborough	, .					\$0.80	
Dighton, . Easton, .						8,291 43	
Easton, .						68	
North Attleb	orough	, .				80	
Norton, .						80	
Norton, . Seekonk, .						6,476 73	
Amounts		d fo	rward,		·	\$14,771 24	\$55,994 60

Construction Expenditures — Continued.

TO	OWN	OR C	CITY.				Amount.	Totals.
Amounts b	roug	ht for	rward,			•	\$14,771 24	\$55,994 60
Somerset, .							6,021 20	
Swansea, .				•			4,357 02	
Taunton, .				i			2 27	
,								25,151 73
	ukes	Cou	inty.				00 457 01	·
Chilmark, .	•	•	•	•	•	•	\$2,475 21	
Edgartown,	•	:	•	•	•	•	2 27	
Oak Bluffs, .	•	•	•	٠	•	•	2 27	
Tisbury, .	•	•	•	•	•	•	2 27	
West Tisbury,	•	•	•	•	•	•	2 27	2,484 29
E	ssex	Cou	nty.					2,101 20
Andover, .							\$10 11	
Beverly, .							8 18	
Gloucester, .						.	25 75	
Groveland, .						.	1 36	
Hamilton, .							29 16	
Haverhill, .						.	3,416 96	
Ipswich, .						.	9,420 63	
Merrimac, .							410 60	
Methuen, .		•			•		1 36	
Newbury, .	•		•	•	•	•	1 36	
Newburyport,	•	•	•	•	•	•	1 36	
North Andove	,	•	•	•	•	•	23,199 24	
Rockport, .	•	•	•	•	•	•	2,420 22	
Rowley, .	•	•	•	٠	•	•	4,647 98	
Salisbury, .	•	•	•	•	•	•	9,247 07	
Wenham, . West Newbury	•	•	•	٠	•	•	148 04	
West Newbury	, .	•	•	•	•	•		52,993 58
Free	ankli	in Co	ounty.					02,000 00
Bernardston,							\$11,476 78	
Deerfield, .							7,270 31	
Erving, .							15,448 86	
Greenfield, .							765 83	
Montague, .		•					1,241 38	
Northfield, .		•	•	•	•		1 14	
Orange, .	•	•	•	•	•		195 73	
Sunderland,	•	•	•	•	•	•	1 14	
Whately, .	•	•	•	٠	•	•	2,590 98	20,000 15
Ha	mnd	en C	ounty.					38,992 15
Agawam, .							\$9,494 53	
Brimfield, .							1 70	
Chester, .							19,679 22	
Amounts o	arrie	ed for	ward.				\$29,175 45	\$175,616 35
		, , , ,					,	,020 00

Construction Expenditures — Continued.

Amounts bro Chicopee, . Holyoke, .	ught	forwar					
Holyoke, .		,	rd, .			\$29,175 45	\$175,616 35
Holyoke, .						4 00	
ногуоке, .	•		•	•	٠	4 83	
N /F	•		•	•	•	6,290 80	
Monson, .	•		•	•	•	17 94	
Palmer, .	•		•	•	•	776 44	
Wales, .	•		•	•	•	57	
Westfield, .	•		•	•		12 50	
West Springfield			•	•		1 14	
Wilbraĥam,	•		•	•	•	237 37	20 517 04
Hami	shire	Coun	ntu.				36,517 04
Amherst, .						\$2 56	
Easthampton,						13 64	
Granby, .						10,977 79	
			ij			9 09	
Hatfield	•	•	į	· ·		13,551 61	
Huntington, Northampton,	•		·	•		5 11	
Northampton	•	•	•	•		7 39	
South Hadley,	•		•	•	•	2 84	
Southampton,	•	• •	•	•		30 01	
Ware,	•	•	•	•		1,322 88	
waic,	•	• •	•	•		1,022 00	25,922 92
Midd	llesex	Coun	ty.			0	
Acton,	•		•	•	٠	\$5 75	
Ashby,	•			•	٠	7,949 82	
Ashland, .				•	•	2,784 50	
Bedford, .				•		1 47	
Billerica				•	•	3 83	
Boxborough,				•		5 73	
Burlington,						2 06	
Chelmsford,						5,912 92	
Concord, .						3 67	
Dracut, .						1 91	
Framingham,			٠.			1,032 53	
Groton, .						4 99	
Holliston, .						11,745 50	
Hudson, .						4 12	
Lexington, .					. (2 84	
Littleton, .						12 48	
Lowell, .						18 53	
Marlborough,						7 95	
Natick						25 07	
North Reading,						1,148 70	
Pepperell, .						4,055 50	
Reading, .						12 15	
Somerville, .						47 10	
Amounts ca	rried	forwa	rd, .			\$34,789 12	\$238,056 31

Construction Expenditures — Continued.

TO	OWN	OR (CITY.				Amount.	Totals.
Amounts b	roug	ht fo	rward				\$34,789 12	\$238,056 31
Stoneham, .							11 11	
Sudbury, .		Ĭ.		i			2 84	
Tewkshurv	•	•	•	•	•	•	3 97	
Townsend	•	•	•	•	•	•	4,970 76	
Townsend, . Tyngsborough	•	•	•	•	•	•	11,529 89	
Wayland, .	•	•	•	•	•	•	2 84	
Wilmington,	•	•	•	•	•	•	16,195 88	
Winchester,	•	•	•	•	•	•	253 76	
windlester,	•	•	•	•	•	•	200 10	67,760 17
N	orfoli	k Co	unty.					07,700 17
Bellingham,	•					. !	\$0 57	
Canton							118 44	
Franklin, .							3,901 73	
Norfolk							4 77	
Norwood, .							7 61	
Plainville, .				Ĭ	·		5,877 00	
Stoughton, .		·	•	·	•		68	
Walpole, .	•	•	•	•	•	•	469 03	
Wellesley, .	•	•	•	•	•	•	88 16	
Westwood, .	•	•	•	•	•	•	5 23	
Weymouth,	•	•	•	•	•	•	$3,922 \ 94$	
Wrentham, .	•	•	•	•	•	•	3,922 94 4 77	
Wieninani, .	•	•		•	•	•	± //	14,400 93
Pl_3	<i>y</i> mou	th C	ounty.			* .		11,100,00
Abington, .							\$5,891 28	
Brockton, .							68	
Lakeville, .							26,345 86	
Marshfield, .							185 34	
Middleborougl	1, .						3 64	
Plymouth, .	´ .						9,080 65	
Scituate, .							135 94	
Wareham, .				i			703 78	
,								42,347 17
	rcest	er C	ounty					
Ashburnham,	•	•	•	•	•		\$841 89	
Auburn, .	•	•			•		48 86	
Athol,	•	•					9 89	
Barre,	•						22 73	
Blackstone,							117 86	
Brookfield, .							67 98	
Charlton, .							19,379 56	
Fitchburg, .							16 03	
Gardner, .							7 27	
Grafton, .							3 98	
Hardwick, .							1 14	
Amounts of	carrie	ed for	rward				\$20,517 19	\$362 564 59
mounts (MITTE	a jor	wara,				\$20,517 19	\$362,564 58

Construction Expenditures — Concluded.

TOW	N OI	R CIT	Υ.			· Amount.	Totals.
Amounts bro	ught	forwa	ird, .			\$20,517 19	\$362,564 58
Harvard, .						4,725 03	
Holden, .						8 52	
Lancaster					.	1 70	
Leicester, . Leominster, Lunenburg, Milford, Milbury, .						12 79	
Leominster,						1 14	
Lunenburg,						2,538 25	
Milford, .						5,904 47	
Milbury, .					. 1	2 84	
Northborough,						2,629 49	
North Brookfield	l.					10 60	
Oxford, .					.	18 18	
Paxton, .						7 95	
Paxton,						1,554 33	
Princeton, .			Ĭ	Ť		19 89	
Rutland, .			·			3 98	
Rutland, . Shrewsbury, Southborough,	•	•	•			3 41	
Southborough	•	•	•	•		57	
Southborough, Southbridge, Spencer, Sterling,	•		•	•	•	57	
Spencer	•		•	•	•	2,812 94	
Storling.	•		•	•		102 75	
Sturbridge, .	•		•	•	•	57	
			•	•		516 88	
Templeton,			•	•	•)	828 83	
Uxbridge, .	•		•	•	•	9 94	
Warren, .	•			•	.		
Webster, .	•		•	•	•	45 53	
West Boylston,	•		•	•		2 27	
Webster, West Boylston, West Brookfield, Westminster,				•		11 65	
westminster,				•		11 25	
Worcester, .					- 1	6 25	40.000 -
							42,309 76
							\$404,874 34

. \$46,040 55

EXPENDITURES UNDER "SMALL TOWN" ACTS.

			~ HI H	,,, <u>,</u> ,	, , , , , ,	210.	LD.		
[Chapter 47, Revise		vs, and	l Chap	ter 279	, Acts	of 1908	.]		
Alford (two allotments), .			•	•	•	•	•	\$40	
Ashburnham (two allotment	ts),	•	•	•	•	•	•	1,850	
Becket (two allotments), .		•	•	•	•	•	•	838	88
Berlin,		•	•	•	•	•	•	400	
		•	•					200	
Blandford (two allotments)		•		•				2,791	16
Bolton (two allotments), .		•	•					200	00
Burlington (two allotments)	,		•					3,928	40
Carlisle,								700	00
Carver,		•						2,000	00
Charlemont (two allotments),		•					1,200	00
Chester,	٠,		•					51	84
Chesterfield (three allotment	s),		•					1,815	43
Colrain (two allotments), .	• •	•	•					900	00
Conway (two allotments), .								900	00
Cummington,			•					550	68
Dana,								775	00
Danvers,								3,155	
Dracut,								2,000	
Dunstable,								20	
East Bridgewater,								5,000	
Eastham,								911	
Easthampton,							•	1,956	
Egremont (two allotments),	·					•	•	1,300	
				•	•	•	•	59	
Florida,	·		•	•	•	•	•	400	
Gill (two allotments),	•	,	•	•	•	•	•	800	
Granville (three allotments)			•	•	•	•	•	2,000	
Greenwich (three allotments)			•	•	•	•	•	1,100	
Halifax,	5), .		•	•	•	•	•	25	
Hampden (three allotments)	٠	•	•	•	•	•	•	800	
Hancock (two allotments),.), .	٠ ،	•	•	•	•	•	790	
1	•	•	•	•	•	•	•		
Hanson,	•		•	•	•	•	•	1,000	
Hawley,	•	•		•	•	•	•	550	
Holden (two allotments), .	•	•		•	•	•	•	1,200	
Hudson,	•	•		•	•	•	•	1,000	
Huntington,		•		•	•	•	•	885	
Lakeville,				•	•	•	•	1,500	
Leyden,				•	•	•	•	400	
Middlefield,				•	•	•		46	26
							-		_

Amount carried forward,

36 H	IGHWAY	CO	MMI	SSION			[Pub. D	oc.
Amount brought	forward, .						\$46,040	55
Middleton,							400	00
Millis (two allotment	(s),			•			1,100	
Monroe,							200	
Monterey,							32	
Montgomery, . New Ashford, .							36	
New Ashford, . New Braintree, .							400	00
New Braintree, .							10	00
New Marlborough (t	wo allotmen	ts), .					1,554	58
New Salem (two alle			•				750	00
Norfolk,				•			525	00
North Andover (two	allotments)	, .	•	•	•		1,000	00
North Reading, .		•	•	•			2,000	00
Norwell,		•	•	•	٠		1,200	00
Oakham (two allotme	ents),	•	•		•	•	520	
Orange,		•	•	•	•	•	1,000	
Otis (two allotments	3),	•	•	•	٠	•.	1,095	
Pelham (two allotme		•	•	•	•		800	
Peru,		•	•	•	٠		360	
Petersham,		•	•	•	٠	•	1,000	
Plainfield (three allo		•	•	•	٠	•	824	,
Plymouth,		•	•	•	٠	•	.9	
Plympton,	• • •	•	•	•	٠	•	450	
Prescott (two allotme		•	•	•	٠	•	600	
Rehoboth,		•	•	•	•	•	2,300	
Richmond,	• • •	•	•	•	•	•	750	
Rowe (two allotment Russell (four allotment		•	•	•	•		450	
Sandisfield,		•	•	•	•	•	1,393	00
Sheffield (two allotme		•	•	•	•	•	451	
Sherborn (two allotn		•	•	•	•	•	600	
Shirley,			•	•		•	700	
Savoy,			•	•		•	1,121	
Shutesbury (two allo			•	•			600	
Southampton (three	allotments)		·	•	•		1,208	
Southwick (two allot	ments).	, .	·				1,034	
Stow,							25	
Topsfield (two allot	ments).						1,500	
Tyringham (two allo							217	
Warwick (three allot							1,250	00
Washington (two all							89	27
Westhampton (two							1,200	00
Westport,							180	00

Amount carried forward, . . .

. \$76,991 29

Amount brought forward, .			\$76,991 29
West Stockbridge (two allotments),			910 00
Williamsburg,			1,000 00
Windsor,			500 00
Worthington (two allotments), .			1,383 60
			\$80,784 89

REPAIR AND MAINTENANCE EXPENDITURES.

[Under Chapter 555 of the Acts of 1911.]

T	OWN	OR C	CITY.				Amount.	Totals.
Ba	rnstab	ble C	ounty	ı .				
Barnstable,							\$2,138 90	
Bourne, .						.	427 64	
Brewster, .							858 03	
Chatham, .							755 88	
Dennis, .							781 71	
Dennis, . Eastham, .							414 18	
Falmouth, .							3,857 63	
Harwich, .							989 79	
Orleans, .							606 92	
Orleans, . Provincetown,							796 69	
Sandwich.							531 09	
Truro,							524 93	
Wellfleet, .							824 09	
Yarmouth (no	rth).						547 62	
Yarmouth (so	uth).						808 22	
	,,							\$14,863 32
$B\epsilon$	rkshi	re Co	ounty					************
Adams, .							\$2,403 42	
Becket, .							1,086 37	
Cheshire, .							1,742 30	
Clarksburg,							101 46	
Dalton, .							858 71	
Dalton, . Great Barring	ton.						686 66	
Hancock, .							10,174 99	
Hinsdale, .							210 58	
Lanesharough							83 72	
Lee							2,108 64	
Lee, Lenox, North Adams Pittsfield, . Richmond, .							7,789 61	
North Adams							4,822 11	
Pittsfield							8,483 15	
Richmond.							595 86	
Stockbridge,			·				1,157 46	
Williamstown							2,274 31	
Windsor, .				·	·		136 70	
							100.00	44,716 08
1		J £						
A mount c	arrie	i Jori	ward,					\$59,579 37

REPAIR AND MAINTENANCE EXPENDITURES — Continued.

TO	OWN OR O	CITY.				Amount.	Totals.
Amount br	ought for	vard,					\$59,579 37
В	ristol Cov	ıntıı.					
Acushnet, .		•				\$211 26	
Attleborough,					.	486 23	
Berkley, .						125 69	
Dartmouth,						503 94	
Dighton, .					.	1,024 62	
Easton, .						61 91	
Fairhaven, .						123 90	
Freetown, .						258 37	
Mansfield						131 10	
North Attlebor	ough,					460 13	
Norton, .						749 10	
Raynham, .						64 90	
Reȟoboth, .						779 99	
Seekonk, .						366 46	
Somerset, .						1,547 02	
Swansea, .						590 94	
Taunton, .						380 32	
Westport, .						158 03	
r	outras Class						8,023 93
Chilmark, .	ukes Cou	inty.				\$268 70	
Edgartown,		•	•	•	•	126 45	
Oak Bluffs, .	• •	•	•	•	•	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Tisbury, .	• •	•	•	•	- 1	217 30	
West Tisbury,	• •	•	•	•		80	
West Habury,	• •	•	•	•			835 82
	Essex Cou	inty.					
Amesbury, .						\$2,184 77	
Andover, .				•		423 86	
Beverly, .				•		3,045 89	
Essex,						68 27	
Gloucester, .						1,319 87	
Groveland, .						287 07	
Hamilton, .						791 96	
Haverhill, .						2,126 38	
Ipswich, .						505 07	
Lawrence, .						73 56	
Lynn,				•		248 64	
Merrimac, .				•		655 72	
Methuen, .					•	771 70	
Newbury, .						885 76	
Newburyport,						169 01	
North Andove						667 95	
Rockport, .					•	121 48	
Amounts o	carried for	rward.				\$14,346 96	\$68,439 10

REPAIR AND MAINTENANCE EXPENDITURES — Continued.

ТО	WN O	RC	CITY.				Amount.	Totals.
Amounts br	ough	for	rward	,			\$14,346 96	\$68,439 1
Rowley, .							1,007 51	
Salem,	•	•	•	·	•	•	165 32	
Salisbury, .	•	•	•	•	•	•	164 45	
Saugus, .	•	•	•	•	•	•	714 25	
Swampscott,	•	•	•	•	•	•	171 09	
	•	•	•	•	•	•	568 46	
Wenham, . West Newbury,	•	•	•	•	•	•	691 14	
west newbury,	•	•	•	•	•	•	091 14	17,829 1
Fra	nklin	Co	unty.					17,029 1
Ashfield, .							\$120 38	
Bernardston,							217 71	
Buckland, .							560 66	
Charlemont,							265 08	
Colrain, .							209 90	
Deerfield, .				. 1			1,119 58	
Erving, .				ij			838 77	
Greenfield, .	•		•	•	•	•	343 12	
Montague, .	•	•	•	•	•	•	2,519 22	
Northfield, .	•	•	•	•	•	•	216 49	
	•	•	•	•	•	•	907 74	
Orange, .	•	•	•	•	•	•	374 39	
Shelburne, .	•	•	•	٠	•	•	0	
Sunderland,	•	•	•	•	•	•	129 00	
Whately, .	•	•	•	•	•	•	4,787 45	12,609 4
Han	npder	ı Co	ounty.					12,005 4
Agawam, .			•				\$468 78	
Brimfield, .							491 38	
Chester, .						.	576 76	
Chicopee, .							2,315 17	
East Longmead	ow,					.	356 11	
Holyoke, .	. 1						1,309 26	
Monson, .							756 02	
Palmer, .							4,816 14	
Russell, .							2,973 77	
Wales,							57 15	
Westfield, .	•	•	•	•	•	.	2,641 81	
West Springfield	4	•	•	•	. •		631 43	
Wilbraham,	٠,	•	•	•	•	.	6,925 85	
·	•	•	•	•	•		0,320 00	24,319 6
	pshir	e C	ounty	'.			0107 10	
Amherst, .		•	•		•	•	\$167 42	
Belchertown,							215 78	
Easthampton,							528 36	
Goshen,							54 69	
Granby, .							197 34	
Amounts co	irried	for	mard				\$1,163 59	\$123,197 4
	111666	111					(DI.IU) (19	0140,197 4

REPAIR AND MAINTENANCE EXPENDITURES — Continued.

TOV	VN OR	CITY.				Amount.	Totals.
Amounts bro	ought f	orward	, .			\$1,163 59	\$123,197 40
Hadley.						1,236 79	
Hadley, . Hatfield, .		•	•	•		1,779 33	
Huntington,	•	•	•	•	- 1	666 35	
Northampton,		•	•	•	•	222 86	
Southampton,		•	•	•		81 45	
South Hadley,		•	•	•		1,337 92	
Ware		•	•	•	•	785 65	3
Ware,		•	•	•	•	221 42	
Williamsburg,		•	•	•		221 42	7,495 36
	llesex	County	1.				1,100 00
Acton,						\$673 19	
Ashby,						2,726 83	
Ashland, .				•		307 02	
Bedford, .						395 24	
Billerica, .						70 30	
Boxborough,						447 02	
Burlington,						670 43	
Chelmsford,						617 71	
Concord, .						855 43	
Dracut, .						56 58	
Framingham,						1,061 97	
Groton, .						226 02	
Holliston, .					.	306 96	
Hudson						289 21	
Lexington, .						461 60	
Lincoln, .						349 11	
Littleton, .			į	i.		527 87	
Lowell, .		•	•			656 51	
Marlborough,	•	•	•	•		1,646 37	
Medford, .	•	*	•	•	• 1	31 62	
Melrose, .		•	•	•	•	18 45	
Natick, .		•		•	•	380 88	
Newton, .		•	•	•	•	63 33	
North Reading,		•		•	.	305 04	
Dooding		•	•	•	•]	508 07	
Reading, .		•	•	•	•	155 22	
Pepperell, .		•	•	•	•		
Somerville, .		•	•	•	•	143 64	
Stoneham, .		•	•	•	•	552 89	
		•	•	•	•	2,214 84	•
Tewksbury,		•	•	•	•	333 85	
Tewksbury, Townsend, Tyngsborough,				•	•	760 18	
Tyngsborough,						1,119 55	
Watertown,						136 99	
Wayland, .						842 38	
Westford, .				•		534 58	
Amounts co	arried j	forward	d, .			\$20,44 6 88	\$130,692 76

REPAIR AND MAINTENANCE EXPENDITURES — Continued.

T()WN	OR C	CITY.				Amount.	Totals.
- Amounts b	rough	nt for	rward,				\$20,446 88	\$130,692 76
Weston, .							2.027 99	
Wilmington,	i.			į	·		152 73	
Winchester,	•	i		·	•		612 59	
Woburn, .	•	•	•		•		656 65	
Na	ntuck	ot C	ounty.			ŀ		23,896 84
Nantucket, .	·		•				\$207 91	
,							***************************************	207 91
	orfolk	Co	unty.				@174 10	
Bellingham,	•	•	•	•	•	•	\$174 10	
Braintree, .	•	•	•	•	•	•	219 77	
Canton, .	•	•	•	•	•	•	409 26	
Cohasset, .	•	•	•	•	•		155 82	
Dedham, .	•	•	•		•		1 81	
Dover, .							541 84	
Foxborough,					•		437 10	
Franklin, .							341 34	
Holbrook, .							134 75	
Milton, .							102 42	
Needham, .							233 23	
Norfolk, .							559 74	
Norwood, .						.	256 88	
Plainville, .							54 80	
Quincy, .							258 30	
Randolph, .		Ĭ	· ·	Ĭ.			146 09	
Sharon.	•	•	•	•	•		84 40	
Stoughton, .		•	•	•	•	•	229 56	
Walpole, .	•	•	•	•	•	.	1,276 49	
Wellesley, .	•	•	•	•	•	•	270 87	
Westwood, .	•	•	•	•	•	•	108 15	
Weymouth,	•	•	•	•	•	•	1,133 66	
Wrentham, .	•	•	•	•	•		504 05	
,	·	•	•	•	·			7,634 43
	mout	h Co	ounty.					
Abington, .	•	•	•		•	•	\$265 19	
Bridgewater,			•			• .	560 81	
Brockton, .			•		•		270 83	
Duxbury, .							2,098 23	
Hanover, .							219 31	
Hingham, .							132 39	
Kingston, .							232 23	
Lakeville, .							510 49	
Marion, .							752 91	
Marshfield, .							2,569 38	
Mattapoisett,							419 56	
Amounts c	arrie	d for	ward,				\$8,031 33	\$162,431 94

REPAIR AND MAINTENANCE EXPENDITURES — Continued.

Middleborough, 838 30 Pembroke, 70 44 Plymouth, 1,168 02 Rochester, 297 81 Rockland, 259 73 Scituate, 610 19 Wareham, 1,297 92 West Bridgewater, 327 44 Whitman, 134 00 Suffolk County. Boston, \$312 26 Chelsea, 1,435 69 Revere, 632 95 Worcester County. Athol, \$2,743 00 Auburn, 852 37 Barre, 631 83 Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	otals.
Pembroke,	2,431 94
Pembroke,	
Prymouth,	
Rochester, 297 81 Rockland, 259 73 Scituate, 610 19 Wareham, 1,297 92 West Bridgewater, 327 44 Whitman, 134 00 Suffolk County. Boston, \$312 26 Chelsea, 1,435 69 Revere, 632 95 Worcester County. Athol, \$2,743 00 Auburn, 852 37 Barre, 631 83 Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	
Scittate,	
Scittate,	
Suffolk County. Boston,	3,035 18
Boston,	,
Revere, 632 95 Worcester County. Athol, \$2,743 00 Auburn, 852 37 Barre, 631 83 Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	
Revere, 632 95 Worcester County. Athol, \$2,743 00 Auburn, 852 37 Barre, 631 83 Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	
Worcester County. Athol, \$2,743 00 Auburn, \$52 37 Barre, 631 83 Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	
Athol,	2,380 90
Auburn, 852 37 Barre, 631 83 Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	
Barre,	
Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	
Blackstone, 410 07 Brookfield, 1,060 86 Charlton, 267 34 Douglas, 199 11 Dudley, 363 40 Fitchburg, 882 91 Gardner, 713 15	
Brookfield,	
Charlton,	
Douglas,	
Dudley,	
Fitchburg,	
Gardner,	
Grafton, 618 24	
Hardwick,	
Harvard,	
Holden,	
170.02	
Lancaster,	
Leominster 320 15	
Lunenburg,	
Milford,	
Millbury,	
North Brookfield,	
Northborough,	
Oxford,	
Paxton,	
D1:11:	
Princeton,	
D 41 1 20 60	
Shrewsbury,	
1,002 10	
Amounts carried forward, \$22,864 51 \$177	7,848 02

REPAIR AND MAINTENANCE EXPENDITURES — Concluded.

TOWN OR CITY.							Amount.	Totals.		
Amounts bro	ought	for	ware	d,			\$22,864 51	\$177,848 02		
Southborough,							831 32			
Southbridge,							163 47			
Spencer, .							2,039 25			
Sterling, .							560 98			
Sturbridge, .						.	271 06			
Sutton, .						.	316 78			
Templeton,							829 02			
Uxbridge, .							274 56			
Warren, .							833 29			
Webster, .							146 38			
Westborough,						.	333 20			
West Boylston,							1,666 21			
West Brookfield,							670 83			
Westminster,						.	1,025 63			
Winchendon,							108 75			
XX7						. 1	2,692 59			
,						-		35,627 83		
Total, .								\$213,475 85		

EXPENDITURES FOR REPAIRS OF STATE HIGHWAYS.

Motor Vehicle Fees Fund.

			[Und	er Chaj	pter 53	4, Acts	of 190	9.]		
Abington,						•			\$50	40
Acton, .									60	20
Adams,									1,504	45
Agawam,									464	16
Amesbury,									209	88
Andover,									42	57
Ashby,									1,525	85
Ashfield,									38	52
Ashland,									487	26
Athol, .									2,801	43
Attleboroug	h,								6,603	76
Auburn,	•								500	00
Barnstable,									617	44
Barre, .									200	00
Becket,									477	73
Amoun	t car	rried	forw	ard,				\$1	.5,583	65

A mount	brought	for	w a rd,				\$	\$ 15, 583	65
Bedford, .								3,457	94
Belchertown,		•	į	•	•	•	·	,	67
Bellingham,			•	•	•	•	•	1,309	
Berkley, .		•	•	•	•	•	•		00
Beverly, .			i	į	•	•	•	1,360	
Billerica, .			i		•	•	•	152	
Blackstone, .			i	·		•	·	2,012	
Boston, .	Ĭ		·	i	·	·	•	•	93
Bourne, .			i	•	Ċ		•	1,220	
Boxborough,					i			44	
Braintree, .				i			Ĭ	27	
Brewster, .								92	
Bridgewater,								774	
Brimfield, .				. 1				1,009	
Brockton, .								273	
Brookfield, .								561	
Buckland, .								278	
Burlington, .								193	
Canton, .								518	
Charlton, .					•				12
Chatham, .			•					95	91
Chelmsford, .								1,496	77
Chelsea, .								2,327	
Cheshire, .								65	
Chester, .								191	59
Chicopee, .								6 3	00
Chilmark, .								35	00
Clarksburg, .								10	46
Cohasset, .								1,050	21
Colrain, .								74	
Concord, .								86	08
Dartmouth, .								8,833	55
Deerfield, .								318	11
Dennis, .								579	06
Dighton, .								1,303	29
Douglas, .								3,412	63
Duxbury, .								626	39
Dover,									96
Dedham, .	•	•				•		1	93
Dracut, .									55
Eastham, .			•					10	02
Amount	carried	foru	ard,				\$	49,594	 59

Amount	brought	forward,				\$49,594	59
Easthampton						. 328	75
Easton, .			;		•		50
Edgartown, .			i		i	• • •	02
Erving, .			Ì		i		31
Essex,			·	į	į		29
Fairhaven, .			i		·		07
Falmouth, .							39
Fitchburg, .						•	97
Foxborough,					·	. 76	
Framingham				•		. 4,122	76
Freetown.	, .				·		57
Gardner, .						. 274	97
Gloucester, .							14
Goshen, .						. 7	19
Grafton, .							69
Great Barrin	eton.					. 122	
Greenfield, .	•					. 58	43
Groton, .				·		. 120	
Groveland, .			i		i		38
Hatfield, .					i	. 822	90
Hamilton, .			Ċ		i		20
Hadley,	·				Ì		20
Hancock, .			Ċ		·	•	79
Hanover, .			·		Ì	,	00
Harwich, .						. 356	93
Haverhill						. 560	45
Hingham, .						. 721	62
Holbrook, .						. 29	00
Holden, .						. 172	80
Holliston, .						. 1,580	62
Holyoke, .						,	10
Hudson, .						,	15
Huntington,				•		. 814	01
Ipswich, .				•		. 3	03
Kingston, .				•		. 631	29
Lakeville, .	ė .					. 42	34
Lancaster, .						. 43	95
Lawrence, .				•		. 6	98
Lee,						. 793	75
Leicester, .						. 966	40
Lenox, .						. 2,254	03
ŕ							
Amount	carried	forward,				\$88,157	12

Amount	brought	forward,				\$88,157 12
Leominster, .	•	•	•	•	•	. 42 10
Lexington, .	•	•	•	•	•	. 2,957 02
Lincoln, .	•	•	•	•	•	. 14 99
Littleton, .	•	•	•	•	•	. 193 40
Lowell, .	•	•	•	•	•	. 884 90
Lynn,	•	•	•	•	•	. 810 39
Lunenburg, .	•	•	•	•	•	. 402 29
Mansfield, .	•		•	•	•	. 16 21
Marion, .	•		•	•	•	. 2,158 71
Marlborough			•	•	•	. 358 03
Marshfield, .			•	•		. 1,162 25
Mattapoisett,				•	•	. 947 06
Methuen, .			• 1		•	. 507 06
Merrimac, .			•	•	•	. 949 52
Middleboroug	gh, .					. 7,487 07
Milford, .			•			. 4,935 17
Millbury, .						. 2,955 04
Milton, .					•	. 98 07
Monson, .					•	. 35 88
Montague, .						. 4,719 92
Medford, .						. 668 78
Melrose, .						. 4 69
Nantucket,						. 1,008 25
Natick,						. 3,535 27
Needham, .						. 171
Newbury, .			•			. 371 44
Newburyport	t, .					. 9 24
Norfolk, .						. 330 37
North Adam	S					. 6,640 27
Northampton	•					. 40 00
North Ando	*					. 447 61
North Attleb						. 589 92
Northboroug						. 504 82
North Brook						. 34 25
North Readi						. 53 05
Norton,						. 6 20
Norwood,						. 311 42
Newton,						. 1 21
Oak Bluffs,						. 244 59
Orleans,					,	. 281 49
Oxford,			·		į	90 57
Ozioru,						

Amount carried forward, . . . \$134,967 35

Amount	brought	forward,		•		\$134, 967 35
Orange, .						. 170 20
Palmer			•			. 6,746 08
Paxton, .						. 571 78
Pembroke, .				•		. 18 00
Phillipston, .						. 2,445 79
Pittsfield, .				•		. 3,077 33
Plainville, .				•		. 303 05
Plymouth, .					•	. 3,604 06
Princeton, .				•	•	. 384 38
Provincetown	ι, .					. 1,092 90
Quincy, .				•		. 352 60
Randolph, .				•		. 421 26
Raynham, .				•		. 36 65
Reading, .	•			•	•	. 5 49
Rehoboth, .				•		. 4,324 82
Revere, .						. 489 21
Richmond, .				•		. 468 75
Rochester, .				•		. 315 88
Rockland, .			•		•	. 31 62
Rockport, .			•			. 586 34
Rowley, .	•		•	•		. 285 27
Russell,			•	•	•	. 2,373 78
Salem,	•		•	•	•	. 1,809 43
Salisbury, .	•		•	•	•	. 9 34
Sandwich, .	•		•	•	•	. 16 75
Saugus,	•		•	•	•	. 1,967 03
Scituate,			٠	•	•	. 553 94
Seekonk,			•	•	•	. 1,960 99
Sharon,			٠	•	•	. 24 00
Shelburne,			•	•	•	. 5 52
Shrewsbury,			•	•	•	. 5,855 33
Somerset,			•	•	•	. 5,561 63
Somerville,			•	•	•	. 1,001 02
Southboroug		•	•	•	•	. 2,338 63
Southbridge,		•	•	•	•	. 39 39
South Hadle	у, .	•	•	•	•	. 12,321 94
Spencer,	•	•	•	•	•	. 1,900 27
Sterling,	• •		•	•	•	. 56 30
Stockbridge,	•		•	•	•	. 207 42
Stoneham,		•	•	•	•	. 1,963 01
Stoughton,		•	•	•	•	. 483 80
Amount	carried	forward,				\$201,148 33

71

. . \$242,086 71

Amount	brought	forward,				\$2	01,1 48	33	
Sturbridge, .							84	59	
Sutton, .							1,533	21	
Swansea, .	•		. "					55	
Swampscott,							2,006	07	
Taunton, .							110		
Templeton, .							368		
Tewksbury, .							84	94	
Tisbury, .							33	23	
Townsend, .							26	59	
Truro,							159	71	
Tyngsboroug	h, .						1,378	71	
Uxbridge, .							4,911		
Walpole, .							1,146		
Wareham, .							1,516		
Warren, .							1,459		
Watertown, .								45	
Wayland .			•				1,381	55	
Wellesley, .				•			1,207		
Wenham, .		•		•			116		
West Boylsto						·	368		
West Bridge						·	619		
West Brookfi				· 1	. 0	i	523		
Westfield, .	•		•			i	882		
Westminster,						i	81		
West Newbur							15		
Weston, .	• /						10	58	
Westport, .							4,989	28	
West Spring			•	•			19		
Westwood, .	•						252	49	
Weymouth, .							687	77	
Whately, .							1,083		
Whitman, .							889		
Wilbraham, .							6,924	45	
Williamsburg							6	25	
Williamstown							3,580	99	
Wilmington,							12		
Winchester,					•		76	55	
Woburn, .							52	74	
Worcester, .			•				725	85	
Wrentham, .							434	11	
Yarmouth, .							1,156		
,								-	\$242,086

Amount carried forward, . .

Amount brought forward,		\$242,086 71
Miscellaneous: —		
	¢1 058 59	
Analysis of tar and oil,	1 200 00	
Electric service at repair shops,	20 22	
Storage, repairs, supplies, care, etc., on comm		
sion's automobile,		
12 water sprinklers,		
4 street sweepers,		
1 hot oil distributor,		
7 tar kettles	. 575 00	
7 tar kettles,	. 560 00	
2 steel oil tanks	. 500 00	
4 steam numps	. 296 00	
1 lathe,	. 291 18	
1 gasoline engine,		
3 diaphragm pumps,	. 236 25	
1 electric motor,		
1 gasoline pump,		
2 tool boxes,	7 40 00	
7 tents,		
1 truek	. 65 00	
1 truck,	. 55 00	
1 tank for oil wagon,		
1 scarifier,	. 58 64	
2 road drags	. 50 00	
1 gasoline heater and burner,	. 48 00	
2 asphalt burners,	. 40 00	
1 harrow,	. 25 25	
1 portable forge,	. 21 00	
1 gravel screen,	. 6 50	
Levelers.	73 89	
Supplies tools and minor apparatus	2.256 56	
Levelers,	. 1.819 45	
Road roller repairs	438 23	
Renairing steam sprayer.	. 41 97	
Repairs on motor cycles,	. 181 22	
Repairing crusher bins,	. 61 26	
Repairing concrete mixer,	. 16 50	
Road roller supplies and parts,	. 133 00	
Labor and materials,	. 5,292 74	
Rebuilding 2 oil and tar sprayers,	. 377 23	
Building 2 portable houses,	. 200 00	
Amounts carried forward,	\$23,879 79	\$242,086 71

 $Amounts\ brought\ forward,\ . \qquad . \qquad \$23,\!879\ 79\ \$242,\!086\ 71$

Transportation of machinery	, .			. 654 91	
Refilling sweeper brooms, .				. 178 14	
Labor on oil tanks,				. 175 10	
Mounting tank wagons, and	labor	and	repa	irs	
to spraying machine,				. 141 36	
8 spray nozzles for tank wa	gons,			. 50 40	
Repairing tar kettles,	•			. 48 50	
Painting tool wagons, .				. 40 00	
Warning signs,				. 19 80	
Boiler inspection,				. 5 00	
- '				25,193	00
Cost of engineering,				49,323	06
, , , , , , , , , , , , , , , , , , ,				,	
Repair and maintenance of	f town	and	cour	ıtv	
ways (chapter 525, Acts				·	
Amherst,				. \$4,818 27	
Barre,				. 452 98	
Becket-Lee,				. 615 99	
Cummington,				. 2,564 25	
Danvers,				. 1,100 00	
Deerfield,				. 21 38	
East Longmeadow,				. 1,548 73	
Egremont,				. 1,597 59	
Goshen,				. 1,263 63	
Greenfield,				. 1,272 94	
Hampden,				. 500 00	
Hinsdale,		·		. 1,447 64	
Ipswich,				. 500 00	
Lee-Becket,				. 936 27	
Lynnfield,				. 1,600 00	
Maynard,			·	. 1,327 63	
Montague,				32 40	
New Ashford,				. 985 04	
Newbury,	·			. 4,450 00	
Northborough,	•	·		. 1,303 30	
Peabody,				500 00	
Rowley,		·		. 500 00	
Saugus,				. 1,724 71	
Shelburne,	•			. 3,159 81	
Sheffield,	•	•	•	. 331 20	
		•	•	. 27 54	
	·			. 2,376 25	
Topsfield,	•		• •		
Amounts carried forwa	rd, .			\$36,957 55 \$316,602	77

Amounts bro	ught fo	rward	, .			\$3	36,957	55	\$316,602	.77
Truro,							5,199	20		
,	•	•	•	•	•		327			
Warren, . Wellfleet, .		•	•	•	•		1,334			
		•	•	•	•		1,354 159			
Wilbraham,	•	•	•	•	•					
Williamsburg,		•	•	•	•		1,535			
Wilmington,		•	•	•	•		347			
Winchendon,	•	•	•	•	•		1,500			
Windsor, .		•	•	•	•	•	2,882	50		
								_	50,243	45
									\$366,846	22
GENERAI	EVDEN	tama T	Dra	1 10	10 m	ο N	Tov 2	0 1	01 1	
GENERAL					·			υ, 1	911.	
		Under C								
Salaries of comm	issioner	s, .				•			\$8,208	33
Travel of commi									3,110	86
Salaries of cleric	al assis	tants	and :	first a	and s	seco	ond en	ıgi-		
neers, .									18,708	77
Rent of offices,									4,750	00
Printing and bind	ling an	nual re	eport	, .					1,019	09
Printing, .									1,500	
Office and typew	riter su	pplies,							773	49
Telephone includ	ing toll	S, .							806	93
Postage, including						, .			1,061	16
Recording land									166	
Advertising heari									68	06
Travel and exper									212	12
Rental and repa									55	85
Repairs to steam									6,499	
Miscellaneous iter								res.	-,	
telegrams and									602	95
									\$47,543	55
	Mon	OR VI	EHICL	e Fe	es F	UNI).			
	ſ U :	nder Ch	apter 5	34. Act	s of 19	909.1				
		utomo								
~				_		и.				
Salaries of clerks					•	٠	•	•	\$38,144	
Rent of offices,					٠		•	•	2,290	
Number plates, n	aotor cy	ycle se	als a	nd sp	eed	sign	ns, .	•	10,716	
Printing, .		•	•	•	•	٠	٠	•	4,488	09
Amount carr	ried for	ward,							\$55,639	49

52 HIC	GHWAY	COM	MISSI	ON.		[Pub. D	oc.
Amount brought for	orward, .	•	•			\$55,639	49
Postage, including pos	tal cards	and er	velope	s		4,979	81
Typewriters purchased	and rent	ed				440	
Office and typewriter s	upplies	., .			·	1,425	
Adding machine, .						300	
Miscellaneous items, inc	cluding ex	press c	harges.	car f	ares.	000	
telegrams and other	minor off	ice exp	enses,		•	928	12
						\$63,712	64
	of Exam		nd Inve	estigat	ors.		
Salaries of inspectors	and exam	iners,				\$10,488	33
Salaries of clerk and st	tenographe	ers, .				2,668	
Traveling expenses, .						2,785	
Printing,						222	
Rent,						512	50
Typewriter,						72	
Postage, including stan	aped enve	lopes.				323	
Miscellaneous items, .						228	
,							
						\$17,301	46
Rebates of automobile	fees					3,826	
	,						
T	Т		77		0		
EXPENSES CONNECTED V					APH S	SUPERVISIO	ON.
	Under Chapt			.1.]			
Salaries of commissione					•	\$4,375	
Salaries of clerical ass			•		•	2,478	
Printing,			•		•	1,339	
Miscellaneous items, .		•	•		•	28	43
						\$8,220	88
[Under Chapter 6						9.]	
Expenses in connection			_				
of the property of							
Telegraph Company,		•	•		•	\$12,357	67
Mτs	CELLANEO	ns Exp	ENDITH	RES.			
	Under Chapt						
Expenditures for the	•				r Or		
causeway in the tow						\$21,076	99
causeway in the tow	n or mai	bieneau	, •			4-1,0.0	
				,			
	Under Chapte				/1		
Expenditures for the			_			Φ7.CCC	72
Westfield River in the	e town of	Chester	, .		•	\$7,668	13

[Under Chapter 677, Acts of 1911.] Expenditures for the construction of a highway over		
Hoosac Mountain, between North Adams and the val-		
ley of the Deerfield River,	\$1,777	67
[Under Chapter 746, Acts of 1911.]		
Expenditures for the construction of a highway from		
the New Hampshire line to Broadway in the town of		
Salisbury,	\$262	43
•	,	
[Under Chapter 678, Acts of 1911.]		
Expenditures for the construction of a highway between		
Shelburne Falls and Green River bridge in the town		
of Greenfield,	\$283	77
[Under Chapters 416-744, Acts of 1911.]		
Expenditures for the improvement of Beach Point Road		
in the town of Truro,	\$205	80
SUMMARY OF EXPENDITURES.		
For construction,	\$404,874	34
For construction under "small town" acts,	80,784	89
For road repair and maintenance, from revenue,	213,475	85
For road repair and maintenance (motor vehicle fees		1 100
fund),	366,846	22
For general expense under chapter 555, Acts of 1911,	47,543	55
For expenditures connected with automobile registration, .	63,712	64
For expense of examiners and investigators,	17,301	46
For rebates of automobile fees, under chapter 534, Acts		
of 1909,	3,826	50
For telephone and telegraph supervision, under chapter		
555, Acts of 1911,	8,220	88
For expenditures under chapter 632, Acts of 1908, and		
chapter 78, Resolves of 1909,	12,357	67
For expenditures under chapter 578, Resolves of 1910, .	21,076	99
For expenditures under chapter 574, Acts of 1910,	7,668	73
For expenditures under chapter 677, Acts of 1911,	1,777	67
For expenditures under chapter 746, Acts of 1911,	262	43
For expenditures under chapter 678, Acts of 1911,	283	77
For expenditures under chapter 416, Acts of 1911,	205	80
	A1 050 010	
	\$1,250,219	39

WM. D. SOHIER, F. D. KEMP,

Massachusetts Highway Commission.

APPENDIX A.

REPORT OF CHIEF ENGINEER.

To the Massachusetts Highway Commission.

Gentlemen: — I respectfully submit the following report concerning the work done by the engineering department during the year ending Nov. 30, 1911.

SURVEYS, ESTIMATES AND DESIGNS.

During the year preliminary surveys and estimates were made on contemplated State highways in 25 towns, covering an aggregate distance of 28.43 miles. Lines and grades for construction work on State highways have been made in 44 towns, covering an aggregate distance of 53.59 miles, some of this work having been done on roads upon which construction was commenced in 1910. Final surveys and measurements were made on contemplated State highways in 34 towns, covering an aggregate distance of 44.93 miles. On "small town" work, so called, preliminary surveys, including plans and profiles, were made in 77 towns, covering an aggregate distance of 47.60 miles. In addition to the above, surveys have been made in 12 towns of roads to be constructed by towns, covering an aggregate distance of 8.43 miles.

In connection with the above work, plans, profiles and cross-sections of State roads have been prepared, covering an aggregate of 28.51 miles, distributed in 25 towns. Layout plans have been made of roads in 37 towns, covering an aggregate distance of 41.96 miles. Plans to accompany decrees for street railway locations on State highways have been made in 18 towns.

BRIDGES.

The following is a list of bridges built during the year: -

Agawam, over Worthington Brook, a reinforced concrete beam bridge, facing the old masonry abutments with concrete, span of 18 feet.

Bernardston, over Dry Brook, a reinforced concrete beam bridge, span of 12 feet.

North Andover, over Cochichewick Brook, a reinforced concrete beam bridge, span of 18 feet.

Shrewsbury, over Poor Farm Brook, a reinforced slab-floor bridge, span of 10 feet.

Spencer, over Seven Mile River, a reinforced concrete arch bridge, span of 42 feet.

Townsend, over Pearl Hill Brook, a reinforced concrete beam bridge,

Walpole, over the Neponset River, a reinforced concrete beam bridge, span of 21 feet.

Designs and estimates have also been made for contemplated bridges, or bridges to be built by towns, as follows: -

Erving, over Keyup Brook, a reinforced concrete beam bridge, span of 171/2 feet.

Framingham, a design for the town, for facing old abutments, building new wings and rebuilding the approaches to the bridge over Sudbury River, on Fenwick Street.

Greenfield, over Mountain Brook, a reinforced concrete slab-floor bridge, span of 18 feet.

Harwich, a design for the town, a bridge over Herring River, concrete beam bridge with two spans of 25 feet each.

West Brookfield, over Quaboag River, a reinforced concrete beam bridge, two spans of 33 feet each.

In addition to the above, a bridge has been built over the Charles River, at the Medway-Franklin line, by the Norfolk county commissioners. The design for this bridge was made in this office. The work consisted of removing an old stone arch which was in an unsafe condition, and replacing it with a concrete arch with spandrel walls and parapets, the old wing walls being rebuilt at the junction with the new work; also one section of the old wall about 30 feet in length was rebuilt.

STATE HIGHWAYS.

Construction has been completed of 9 miles on contracts that were pending at the beginning of the year, and construction has also been completed of 31.37 miles of roads on which work was commenced during the present year, making a total of 40.37 miles of construction completed during the year.

Construction has been commenced but not completed on 22.9 miles of roads on layouts of this year in 22 towns.

Of the above roads completed this year, 7.77 miles were of water-bound macadam; 5.37 miles were of gravel; 4.57 miles were of sand bound with oil; 4.07 miles were of bituminous macadam, that is, macadam with bituminous binder incorporated in the top course by penetration method; 14.61 miles were of water-bound macadam with an oil surface applied; 3.98 miles were of gravel with the top surface bound with bituminous binder.

Accompanying this report is a table showing costs of construction of State highways separated, in order that comparisons may be made between the costs of different classes of work in different portions of the State.

"SMALL TOWN" WORK.

Under the provisions of the "small town" act, 45.9 miles of road were constructed during the year in 80 towns, and contracts were made but not completed for 8 miles in 17 towns. The lengths, types and costs of these roads are shown in tabular form in this report.

MAINTENANCE OF STATE HIGHWAYS.

Bituminous material has been used in the maintenance of State highways during the present year on 240.48 miles, and there are at present 545.47 miles of State highway on which bituminous material has been used either in construction or maintenance. While there have been a few failures of bituminous roads, the use of bituminous material seems at the present time to be the only feasible way of preserving the roads under the present traffic, and I recommend continuing the use of this material in construction and maintenance so far as funds will permit.

PERMITS.

Seven hundred and thirty-four permits have been issued during the year for occupying or opening State highways for various purposes. In a few cases, the expense of inspecting the work done under permits has been paid by the parties to whom permits were issued. This has been done, however, only in such cases as seemed to require constant supervision for several days or weeks.

ADVICE TO TOWNS.

During the year your engineers have given engineering advice to officials in 94 towns and counties. The scope of the work for which advice has been given has varied greatly, and the cost of the work carried out in accordance with advice, although a large sum, cannot be definitely determined, as we have no access to the accounts which show the cost of the work done.

SPECIAL ACTS OF THE LEGISLATURE.

Work has been completed during the year on the Marblehead breakwater and highway as authorized by chapter 578, Acts of 1910, and on the bridge in Chester, authorized by chapter 574, Acts of 1910. Work is under way in Greenfield and Shelburne, as authorized by chapter 678, Acts of 1911, and surveys have been made preparatory to letting contract for work in Windsor, as authorized by chapter 711, Acts of 1911. Under chapter 677, Acts of 1911, extensive surveys have been made between the North Adams line and Charlemont. While the plotting of the notes of these surveys and estimates of the cost of the work have not yet been completed, sufficient work has been done to justify the statement that the funds appropriated are not adequate to construct or improve any great portion of the road between the above-mentioned points. Notes and estimates will be sufficiently completed in January, 1912, to make a comprehensive report. The result of the surveys shows that it would not be economical or advisable to follow the existing highway over the mountains, as it is impossible to reduce the grade to any reasonable percentage. It appears that the best route obtainable would not follow the existing highway between Charlemont and North Adams, except over a small part of the route. With this last route, a maximum grade of 7 per cent. can be obtained without extreme expense, whereas the grade of the present highway over the mountains in several places exceeds 15 per cent.

Under authority of chapter 476, Acts of 1911, surveys and estimates have been made for a road in Salisbury. It has been found that an ordinary gravel road of the usual State highway width could be built within the appropriation, but the releases of land owners not having been obtained, nothing has been done on the road.

Respectfully submitted,

A. W. DEAN,

Chief Engineer.

Table showing Costs of Grading and Drainage, separated from Surface Costs on Roads completed in 1911.

										~_	_	•			!-		_	
SURFACE.	Per Square Yard.	\$0.874	.471	.432	290.	.629	.315	.357	ı	.642	.539	.119	.455	.322	.277	.317	.460	.681
COST OF SURFACE.	Per Mile.	\$7,689	4,141	3,803	200	5,540	2,770	3,142	1	5,655	3,789	1,016	4,005	2,832	2,441	2,789	4,053	5,994
R MILE.	Grading and Founda-	\$1,186	3,028	591	2,255	1,549	3,736	3,342	10,157	1,953	619	3,701	3,633	401	3,683	914	1,755	7,408
Cost Per Mile.	Bridges and Culverts.	\$2,005	2,955	68	989	602	920	441	61,441	2,290	21	1,326	629	48	1,490	800	283	8,357
TH OF	Square Yards.	7,858	260'6	10,733	23,778	9,565	10,815	9,378	2,437	13,298	7,947	10,776	9,507	27,095	17,063	10,583	13,223	5,570
LENGTH OF CALCULATIONS,	Miles.	.893	1.034	1.22	2.702	1.087	1.229	1.066	772.	1.511	1.129	1.224	1.08	3.079	1.939	1.203	1.503	.633
	Type of Surface.	Macadam, 41/2-inch, trap rock, bituminous surface coat (con-	Macadam, 5-inch, local stone (concrete beam bridge),	Macadam, 4-inch, local stone,	Gravel, 6-inch (concrete beam bridge),	Macadam, 4-inch, trap rock,	Macadam, 4-inch, local stone,	Macadam, 4-inch, local stone,	Grading and concrete arch bridge,	Macadam, 4½-inch, trap rock, bituminous surface coat (con-	Green Deam Dingel. Macadam, 4-inch, local stone, 12 feet wide,	Gravel, 5-inch,	Macadam, 5-inch, local stone,	Sand and oil, 4-inch, built up,	Macadam, 5-inch, local stone,	Gravel, 5-inch, bituminous surface coat,	Macadam, 5-inch, local stone,	Macadam, 5-inch, trap rock (concrete beam bridge),
	TOWN.	Agawam,	Ashby-Townsend, 1910,	Barnstable,	Bernardston,	Bourne,	Charlton, 1910,	Charlton, 1911,	Chester, 1910,	Chester, 1911,	Chilmark,	Deerfield, 1910,	Dighton, 1910,	Eastham, 1909,	Erving, 1910,	Franklin, 1910,	Granby,	Hatfield, 1910,

.168	.356	.461	.517	.461	.562	.116	.738	.565	.436	.351	.489	877.	.815	.874	969.
1,484	3,130	4,063	4,557	4,062	4,947	1,026	6,490	4,984	3,837	3,087	4,306	6,873	7,169	7,695	6,128
8,457	2,160	1,121	2,458	3,034	4,111	1,711	3,348	2,305	1,355	400	1,582	12,272	2,436	1,527	1,746
988	527	066	450	519	626	745	544	275	132	216	289	33,356	707	417	288
6,446	16,333	8,107	17,042	15,117	10,363	10,315	4,283	5,833	13,083	13,200	2,666	583	7,083	9,634	12,403
.730	1.856	.921	1.937	1.718	1.178	1.172	.487	.663	1.487	1.50	.871	990.	.805	1.095	1.409
•	٠	•	٠	•	•	٠	•	•	٠	•	•	•	•	•	·
•	•	•	t,	at,	ئ	٠	•	•	٠	٠,	٠	•	•	٠	
•	•	٠	e coa	e co	coa	٠	٠		٠	coa	٠	ge),	۲,	•	er,
•	٠		ırfac	urfac	ırface		der,			ırfac		brid	inde	ider,	bind
		lt up	us su	s sno	ns sn	٠	s bin			us su		eam	q snc	s bin	snot
	coat	bui	mino	min	nino		inou			nino		ete b	min	inou	umi
	rface	nder,	bitu	bitu	bitur		itum			bituı		oncr	bitu	itum	, bit
	ns sn	ıs biı	one,	rock,	one,		ck, b	ck,	ixed,	one,	one,	sk (c	ock,	3k, b	stone
	ninor	ninou	al st	rap 1	al ste		p roc	p roc	h, m	al st	al ste	p roc	rap 1	p roc	ocal
	itun	itum	, loc	ch, t	, loc		ı, tra	ı, tra	ź-incl	ı, loc	ı, loc	ı, tra	ch, t	ı, tra	ch, l
ch,	ch, b	ch, b	-inck	¼-in	-inch	ch,	-inch	-inch	1, 31/2	-inch	-inch	-inch	¼-in	-inch	¼-in
, 5-in	, 5-in	, 5-in	ım, 5	m, 3	m, 4	5-in	m, 4	m, 5	nd oi	m, 4	m, 5	m, 4	m, 4	m, 5	m, 4
avel	Gravel, 5-inch, bituminous surface coat,	Gravel, 5-inch, bituminous binder, built up,	Macadam, 5-inch, local stone, bituminous surface coat,	Macadam, 31/4-inch, trap rock, bituminous surface coat,	Macadam, 4-inch, local stone, bituminous surface coat, .	Gravel, 5-inch, .	Macadam, 4-inch, trap rock, bituminous binder,	Macadam, 5-inch, trap rock,	Sand and oil, 31/2-inch, mixed,	Macadam, 4-inch, local stone, bituminous surface coat, .	Macadam, 5-inch, local stone, .	Macadam, 4-inch, trap rock (concrete beam bridge),	Macadam, 41/4-inch, trap rock, bituminous binder,	Macadam, 5-inch, trap rock, bituminous binder,	Macadam, 41/4-inch, local stone, bituminous binder,
. Gravel, 5-inch,	Ü	<u>5</u>	M	M	M	Ğ	W	W W	Sa	W —	N N	M	M	W	W.
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1910,	1910		1910	ugh,	910,			1910	, 1910	1910,	1910,		ough,	n, 19	n, 19
Harvard, 1910,	Holliston, 1910,	Ipswich,	ville,	Lanesborough,	rd, 1	Pepperell,	ville,	Rockport, 1910,	Sandwich, 1910,	nk,	rset,	send	Tyngsborough,	ingto	ingto
Harv	Holli	Ipsw	Lakeville, 1910,	Lane	Milford, 1910, .	Pepp	Plainville,	Rock	Sand	Seekonk, 1910,	Somerset, 1910,	Townsend,	Tyng	Wilmington, 1910,	Wilmington, 1911, .

APPENDIX B.

RELATING TO THE WORK OF THE AUTOMOBILE DEPARTMENT.

Statement showing the Number of Registration Certificates and Licenses to operate issued during the Fiscal Year 1911, also the Fees received for the same, together with the Fees for Examinations, for Copies of Certificates of Registration and Licenses, etc., and Fines for Violation of the Automobile Law.

for violation of the Automobile Law.		
Certificates of registration:—		
Automobiles,	\$380,760	00
	7,030	00
Manufacturers and dealers, 870	24,849	00
Licenses to operate:—		
Operators,	22,122	00
Chauffeurs, 4,183 at 2 00	8,366	00
Operators' renewals, 25,345 at 50	12,672	50
Chauffeurs' renewals, 11,361 at 50	5,680	50
Examinations, 6,137 at 2 00	12,274	00
Copies of certificates and licenses		
furnished, 1,602 at 50	801	00
Number plates and seals,	813	25
Miscellaneous receipts, including interest on deposits, .	2,049	70
		—
Amount received at the office of the commission,	\$477,417	95
Court fines received by the Treasurer and Receiver-Gen-	· ·	
eral,	26,744	50
Total receipts for the year.	504.162	45

REPORT OF THE EXAMINING AND INVESTIGATING DEPARTMENT.

F. I. Bieler, Secretary, Massachusetts Highway Commission.

DEAR SIR: — I beg to submit the following as the fifth annual report of the examining and investigating department, covering the period from Dec. 1, 1910, to Dec. 1, 1911. Statistical tables containing the data of this department are handed you herewith.

Examinations.

Examinations of applicants for chauffeurs' licenses have been conducted, as in previous years, in 9 cities of the Commonwealth besides Boston, and by request a few examinations were conducted in the city of Lawrence and town of Oak Bluffs.

In comparison with the statistics of last year, the following special features may be noted:—

	1910.	1911.
Total number examinations,	5,433	6,152
Total number persons examined,	4,138	4,648
Total number persons passed,	3,701	4,119
Total number failures on first examination,	1,268	1,424
Total number failures on road examination,	1,263	1,496
Total number persons failed to receive license,	437	529
Total per cent. failed to receive license,	10.56	11.38
Total per cent. failures on first examination,	31.50	31.53
Total per cent. failed on written test, first examination,	8.60	8.63
Total per cent. failed on road test, first examination,	22.90	25.11

From these statistics it will be seen that 510 more persons have been examined, and 719 more examinations have been held, this year than last. The percentage of failures on the written examination has remained about the same, while the percentage of failures on the road test has increased. Four hundred and eighteen more persons passed the examination this year than last, and 92 more finally failed to receive a license. This year 11.38 per cent. finally failed, as against 10.56 per cent. for 1910. There were 1,496 failures in the road test, an increase of 233. More than half of the total number of examinations, or 3,125, were conducted in Boston. The balance, or 3,027, were conducted in the other cities.

From the expenditures apportioned to examinations it has been found that the average cost of each examination is \$1.10.

Investigations and Prosecutions.

A comparison of cases investigated and prosecuted in 1910 and 1911 is given below:—

					1910.	1911.
Cases investigated, Prosecutions,	:				429 47	504 39

The department has investigated 114 deaths. Of these, 110 occurred in Massachusetts, 2 in Connecticut and 2 in Maine. These last cases were investigated for the reason that the operators were residents of this State and held Massachusetts licenses. Of the 110 deaths in Massachusetts, 1 (a case of asphyxiation by gasoline fumes) may be regarded as having been only indirectly connected with the operation of an automobile.

On July 17, 1911, Thomas A. Dolan of Fall River, Mass., was appointed inspector and examiner. Mr. A. F. Foote has investigated and examined in the western part of the State, Mr. E. L. Blish in the central district, and Messrs. P. H. Weinert, William MacConnell, C. G. Hubbell and Thomas A. Dolan in the eastern and southern districts.

In addition to investigating accidents, the inspectors have given a great deal of time to investigating complaints, and to reporting on the general reputation of applicants for licenses who have had their licenses suspended or revoked. Owing to the increase in the number of applicants for licenses, the work of the inspectors has been greatly interrupted by their being called upon to conduct examinations. Many accident cases that seemed to be serious have been placed on file, since it was impossible for the present force of inspectors to investigate them all.

More than 2,825 newspaper clippings have been received which refer to court proceedings and automobile accidents. A daily record has been kept showing all automobile accidents and collisions in a carefully analyzed tabulation. Besides the daily record, a monthly compilation is also made.

A comparison of the figures for the year 1910 with those of 1911 is given below:—

Deaths, Injuries, Accidents.

								1910.	1911.
Total number	killed,							77	110
Total number	injuréd.							963	1,248
Total number	accidents	5,						1,182	1,531
Total number	accidents	ir	n dayt	ime,				867	1,098
Total number	accidents	a	fter d	ark,				315	433
Total number	accidents	3 0	n cou	ntry	road	ls,		222	280
Total number								960	1,251

It will be seen from the above table that there has been a large increase under each heading.

The average cost per investigation has been \$20.90.

Court Abstracts.

During the year 1911, 3,322 abstracts were received, as against 3,706 received in 1910. These abstracts of court records have come from 68 courts in this Commonwealth. In order to obtain these abstracts promptly, it has been necessary in many cases to communicate with the clerks of court. The number of inquiries for information contained in these abstracts has been approximately the same this year as last.

Analysis of the Abstracts of Court Records for the Period from Dec. 1, 1910, to Dec. 1, 1911.

Number of courts that have forwarded abstracts,	68
	322
Persons guilty of unlawful automobiling,	911
· · · · · · · · · · · · · · · · ·	104
Cases appealed to a higher court,	305
Complaints placed on file,	572
	102
Defendants defaulted,	18
Persons committed to imprisonment,	8
Complaints brought:—	
For manslaughter,	2
For overspeeding,	910
For reckless operating,	94
For operating while intoxicated,	25
For using automobile without authority,	41
For endangering lives and safety of public,	12
For failing to stop after causing injury,	18
For improper display or no register number,	51
For operating without a license,	217
For operating without carrying registration certificate, .	57
For operating an unregistered motor vehicle,	53
For refusing to stop when signalled by officer,	61
For operating with unlighted lamps,	183
For violations of park rules,	270
For failing to give signal when approaching intersecting	
way,	,165
For miscellaneous offences,	203

64		HIGH	WAY	CC)MM	ISS	ION.	[]	Pub. D	oc.
Fines, etc	as sho	wn by	court :	abstr	acts:	_				
For v	violating	State st	tatutes,					. 8	\$26,537	00
For v	violating	metropo	olitan 1	oark	rules,				2,182	00
For o	eost of c	ourt, .	•	•	•	•	•	٠	2,245	38
η	lotal							-	R30 964	38

Respectfully submitted,

F. L. AUSTIN, Chief Examiner and Inspector.

APPENDIX C.

REPORT OF FORESTER OF HIGHWAY COMMISSION.

CLINTON, Dec. 1, 1911.

To the Massachusetts Highway Commission.

GENTLEMEN: — I hereby present my eighth annual report of the work done in the forester's department.

The year has been an unusual one, erratic in the extreme, with intense heat and a minimum amount of precipitation at the time when moisture was most needed; yet despite these facts our trees have survived the test remarkably well.

During the spring it was necessary to water some of the trees, at which time we added from one to two ounces of nitrate of soda to each of the backward trees, with very beneficial results. Continuous use of nitrate of soda would not be desirable. A more complete fertilizer composed of 6 parts basic slag, 3 parts sulphate of potash, low grade, and 1 part nitrate of soda is a formula very satisfactorily used for trees.

In May, mostly in Palmer and adjacent towns, 1,381 new trees were planted, to complete our tree work from Worcester to Springfield. Fortunately the preparation of the ground was done last fall; consequently, it contained the greatest amount of moisture possible, which, with the thorough mixture of dressing and crushed stone dust, produced ideal conditions.

The method of reducing the number of caretakers, giving a greater number of trees to one man, was a success, the condition of the trees being greatly improved.

The percentage of replaced trees has been smaller than any year since the inception of the tree planting, namely, 3 per cent. It is doubtful if trees, subjected to as many trying conditions as those by the roadside encounter, can be maintained at a much less loss.

The condition of the trees at the nursery is favorable; the stock, however, at the present time consists largely of young trees, 1,400 having been added by propagation during the year.

Very satisfactory experiments have been made by the forester with the use of dynamite in preparing the ground for tree planting. By using one-third of a stick of dynamite and inserting it in the ground to a depth of 18 inches the soil is thoroughly shaken up,

and fertilizing elements in the soil are rendered available to a greater depth than ordinarily. All insect life is thereby destroyed. This will prove desirable in soils having a rocky or clayey subsoil and reduce the cost of preparation.

Your forester has been called upon to prepare a lengthy article upon the planting and care of shade trees along the highways, as practiced by this commission, for "Engineering and Contracting," published in Chicago. This article has recently been copied by the "Surveyor," published in London.

The work of spraying trees in towns west of Worcester was placed in charge of the forester this year. As a result, work was done in 30 towns and cities, chiefly for the elm-leaf beetle, which is now prevalent throughout the State. While it was not all that could be desired in every case, there was a marked contrast in the favorable appearance of the trees compared with the trees on adjacent roads not sprayed. Everything depends on an early application and a pure quality of arsenate of lead.

The Vanessa antiopa, or mourning cloak, was more prevalent than usual, but it is not so serious a pest and rarely defoliates an entire tree.

Preparations have been made to use hedges in place of guard rails where conditions will allow. In the spring 5,000 young plants were procured and planted in the nursery, ready to set out next spring. The varieties selected were aralias, lilacs, Japanese roses, native barberries and Chinese privet; to these might be added the California privet for positions where the subsoil is thoroughly drained, the object being to have a type of plant that will produce a thick growth.

New trees planted in 1911,							ē	1,381
Total trees planted in eight	years	s, .						15,217
Trees replaced in 1911, .								418
Percentage of loss, .					•			3
Large trees on hand in nurs	sery, .							561
Small trees on hand in nurs	sery, .							4,956
Total number of towns in	which	trees	have	been	plan	ted,		63
Number of towns in which to	trees 1	have b	een in	spect	ed in	1911,		144
The cost of maintenance per	tree	was .						\$0 25
The cost of new planting pe	er tre	e was						\$1 11

Respectfully submitted,

VARIETIES AND DISTRIBUTION OF SHADE TREES PLANTED IN 1911.

Trees replaced.

	Tor	WN.			Elms.	Norway Maples.	Sugar Maples.	White Maples.	Ash-leaf Maples.	Ash.	Willows.	Miscellaneous.	Totals.
Agawam, .					-	-	12	3	-	-	2	-	17
Andover, .					-	-	4	1	-	3	2	-	10
Ashby, .					-	-	10	-	-	-	-	-	10
Auburn, .					2	-	6	10	3	-	1	-	22
Barnstable,					2	-	-	-	-	-	-	-	2
Brewster, .					11	-	-	-	-	8	10	-	29
Brookfield,					-	4	-	1	-	-	-	-	5
Chatham, .					12	-1	-	-)	2	1	-	1	16
Chelmsford,					-	-	-	-	-	7	, -	-	7
Cheshire, .				- (4	-	-	-	-	-/	-	-	4
Dennis, .					7	1	-	-	1	1	-	-	10
Easthampton,					-	4 .	10	_	-	-	1	-	15
Fitchburg,					1	-	3	-	-	-	-	-	4
Gardner, .					7	-	-	-	-	-	1	_	8
Hadley, .					-	11	-	-	-	-	_	-	11
Hancock, .					-	5	-	-	,-	-	_	-	5
Hatfield, .					-1	-1	6	-	-	-	-	-	6
Hinsdale, .					2	-	-	-	-	_	3	-	5
Huntington,					-	-	1	-	-	7	-	-	8
Lee,					-	1	-	-	-	-	4	-	5
Leicester, .					-	-	4	_	-	_	-	_	4
Lenox, .					_	8	-	1	-	-	_	-	9
Lowell, .						-1	2	_	_	2	4	-	8
Montague, .					2	_	-	_	-	5	-	-	7
Natick, .					2	3	1	_	-	6	_	-	12
North Adams,				. \	6	4	-	_	-	3	1	-	14
Norfolk, .					2	4	-	-	- 1	1	_	-	7
Northampton,					1	-1	1	_	-	_	1	_	3
North Reading	ζ,				4	-	-	-	_	4	_	_	8
Norwood, .				ı,	4	-	2		_	-	_	, -	6
Orange, .					1	4	-	_	-	2	-	_	7
Pittsfield, .				. !	-	9	-		_	_	_	_	9
Reading, .					2		4	_	_	3	2		11
Richmond,					_	9	_}	_	-	_	1	_	10

VARIETIES AND DISTRIBUTION OF SHADE TREES PLANTED IN 1911 -Concluded.

Trees replaced.

	Tor	WN.		Elms.	Norway Maples.	Sugar Maples.	White Maples.	Ash-leaf Maples.	Àsh.	Willows.	Miscellaneous.	Totals.
Spencer, .					-	4	-	-	-	-	2	6
Stoneham,				1	8	4	-	-	1	-	-	14
Stockbridge,				_	1	-	-	-	-	1	-	2
Templeton,				-	1	-	-	-	-	2	-	3
Townsend,				-	-	1		-	10	~	-	11
Tyngsborough,				-	-	-	-	-	13	-	6	19
Walpole, .				2	1	-	~	-	2	-	-	5
Warren, .				1	-	-		-	1	-	-	2
Wellesley, .				-	-	-	-	-	2	-	-	2
West Brookfield	,			-	-	-	-	-	1	1	-	2
Westfield, .				3	-	9	8	-	-	-	-	20
Westminster,				2	2	4	-	-	-	-	-	8
Wrentham,				-	2	-) -	-	-	-	-	2
Yarmouth,				-	-	-	-	3	5	-	-1	8
Totals,				81	82	88	24	9	88	37	9	418

New Trees planted.

•	Fown	۲.	,	Norway Maples.	Sugar Maples.	White Ash.	Russian Willows.	Laurel- leaf Willows.	Totals
Brookfield,				16	25	-	_	-	41
Monson, .				, -	-	43	60	-	43
Palmer, .				100	254	511	90	-	955
Somerset, .				- }	-	25	~	-	25
Spencer, .				4	-	83	-	9	96
Wilbraham,				 	61	132	28	-)	221
				120	340	794	118	9	1,381

On Hand in Nursery.

Large Trees. - American elms, 93; white maples, 66; English ash, 39; Lombardy poplars, 18; Russian willows, 60; black locusts, 25; Norway maples, 46; lindens, 22; white poplars, 17; laurelleaf willows, 100; assorted willows, 50; miscellaneous, 25; total, 561.

Small Trees. — American elms, 838; ash-leaf maples, 316; white ash, 1,542; red oaks, 323; Russian willows, 520; lindens, 50; white maples, 191; green ash, 1,052; scarlet oaks, 63; pine oaks, 50; laurel-leaf willows, 11; total, 4,956.

APPENDIX D.

REPORT OF Mr. F. W. RANE, STATE FORESTER, RELATING TO SUPPRESSION OF INSECT PESTS.

Boston, Mass., Dec. 19, 1911.

Massachusetts Highway Commission, 15 Ashburton Place, Boston, Mass.

Gentlemen: — I submit, herewith, a brief report on the work done against the gypsy and brown-tail moths and elm-leaf beetle on State highways under the direction of this department during the past fiscal year. The work has been carried on by this department as in previous years, and has been given our best attention. We have not only endeavored to attend to the gypsy and brown-tail moth work on highways, but have done considerable work in the moth-infested section against the elm-leaf beetle. The condition of the State highways at this time is very much improved as far as the gypsy and brown-tail moths are concerned, and is not at all serious.

A general infestation of the elm-leaf beetle occurs throughout the district on the highways, and in many places it is very serious, and necessitates very careful spraying during the summer season.

During the past year the amount expended by this department was somewhat increased over the year previous, owing to the fact that the government, in the year 1910, took care of several miles of State highway, which this department was obliged to care for the past year. The necessary thinning in nearly all of the moth-infested district on the highways has been completed, and in some sections considerable spraying was done by this department, especially in the Cape district, where work was done in more towns in a much more thorough manner at somewhat less cost than the previous year.

I am inclosing a comparison of the two years' expenditure on the same work in the Cape towns.

Much might be done in the way of removing dead wood on the State highways, which would facilitate the insect problem to a great extent, as a large part of it could be attended to in the coming season. There are also several dead trees, which it will be necessary to remove, and this matter will be attended to by this department. Not much of the winter work has been accomplished at this time, owing to the fact that last year's appropriations were exhausted early in the season. This work will be begun at an early date.

The work was done at a total cost of \$7,540.34, as per the accompanying list of cities and towns: -

Harvard.

Abington. Acton. Amesbury. Andover. Ashby. Ashland. Attleborough. Barnstable. Bedford. Bellingham. Billerica. Boxborough. Braintree. Brewster. Bridgewater. Brockton.

Chatham. Chelmsford. Concord. Dennis. Dighton. Dracut. Duxbury. Falmouth. Foxborough. Framingham. Franklin. Groton. Groveland. Hamilton.

Reading. Rehoboth.

Harwich. Haverhill. Hudson. Kingston. Lakeville. Lancaster. Leominster. Lincoln. Littleton. Mansfield. Marion. Marlborough. Marshfield. Methuen. Middleborough. Millbury. Milton. Natick. Needham. Newbury.

North Andover.

North Attleborough. Northborough. Norton. Woburn. Orleans. Pepperell. Randolph. Yarmouth.

Rockland. Rowley. Salisbury. Scituate. Shrewsbury. Somerset. Southborough. Sterling. Sudbury. Sutton. Swampscott. Swansea. Taunton. Templeton.

Tewksbury.

Townsend.

Tyngsborough. Wayland.

West Bridgewater. West Newbury. Westford. Weston. Weymouth. Wilmington. Winchester. Worcester. Wrentham.

Comparison of Work done on the Cape in 1910 and 1911.

								1910.	1911.
Barnstable, Brewster, Chatham, Dennis, Falmouth, Harwich, Orleans, Yarmouth, Material furi	· ·	-d pz	Sta	te Fo	·	 	 	\$48 00 8 40 2 50 11 80 145 32 2 00 4 25 288 00	\$42 92 34 33 8 58 25 75 42 92 8 58 8 58 42 92 256 96
		·						\$510 27	\$471 54

Much more work was done in 1911 at a less cost.

Respectfully yours,

F. W. RANE,
State Forester.

APPENDIX E.

REPORT OF THE CHEMIST.

Massachusetts Highway Commission.

GENTLEMEN: - During the year 1911 systematic analyses of the bituminous road materials used during the year have been continued, and in all 241 samples have been submitted to the chemical and physical tests judged by us to be the most efficient in showing the character of these materials and their value in road work. Besides this, investigations have been made of analytical methods used in other States, the purpose of this work being to determine whether or no some of these methods were of sufficient value to copy. The methods of analysis followed by us during the year have been nearly identical with those given on pages 82-85, inclusive, of the report of your commission for 1910, the only changes being as follows: the time for the determination of the per cent. of each material lost by evaporation during heating at 100° C. has been changed from twenty-one to twelve hours, this change being made as it was evident that the longer period caused decomposition of some of the samples. During 1911, moreover, all of the samples have been examined to determine the percentage of paraffin present, this being done by the Saybolt method described on page 558 of "The Modern Asphalt Pavement" (Richardson).

Eighteen samples submitted by the different companies in the spring, to show the grade of material that could be furnished, have been examined during the year; 102 samples of standard macadam binder A; 40 samples of asphalt oil A; 11 samples of tarite, so called; 13 samples of water-gas tar; while the remaining samples have been of standard macadam binder B, Texas road binder, Bermudez oil, tarvia A, etc.

Speaking broadly most of the samples of asphaltic oils were within the limits of the specifications issued at the beginning of the year, although occasionally samples showing wide discrepancies from these specifications were received, and a very large number

of the samples frothed on heating. This frothing interfered with some of the determinations, especially with the determination of viscosity, but may not have been due entirely to water in the samples. Examinations to determine the cause of this frothing are now being made. The samples of refined tar, also, were very generally within the specifications issued, but of these samples a large proportion frothed on heating.

On studying the materials used in different towns as shown by the analyses made at the laboratory, it is evident that the same specified material differed considerably in different towns. For instance, the viscosity of standard macadam binder A used at Tyngsborough was 390, while as used in North Truro it was 540 and in Groveland 590. The viscosity of the asphalt oil A, used in different towns, varied from 240 in Southborough to 340 in Chester. Other slight differences are shown by the different analytical tests.

On the whole, however, it is evident, judging from laboratory tests only, that the materials furnished during 1911 were fully as good or better than those furnished during 1910.

Respectfully submitted,

H. W. CLARK, Chemist.

Boston, Mass., Dec. 22, 1911.

APPENDIX]

Table showing the Highways laid out or contracted for by the Commission, and Construction Expendi-TURES, TO DEC. 1, 1911.

WOWN GO WIND		ROAD 1	Road laid out.		Length	Construc- tion Ex-
JOWN OR CITY.	rear.	From —	Direction.	Length (Miles).	structed (Miles).	penditures to Dec. 1, 1911.
Abington,	1900-1-3,	Brockton line,	Easterly,	1.73	1.74	
Abington,	1905–7,	Holbrook line,	Easterly,	1.64	1.64	\$32,667 68
Abington,		Weymouth line,	Southerly,	.95	.95	
Acton (Great Road), 1		Concord line to Littleton line,	Northwesterly,	3.71	3.71	
Aeton (west),		Boxborough line,	Southwesterly,	1.67	1.67	46,499 52
Acushnet,	1901–3,	Rochester line to Rochester line via Long	Westerly and northerly,	2.80	2.80	3
Aeushnet,		Near New Bedford line,	Northerly,	19.	[19.	8,951 63
Adams (Maple Grove), .		Cheshire line,	Northerly,	.57	.57	
Adams (Orehard Street), .		Cheshire line,	Northerly,	1.46	1.46	24,398 08
Agawam,	1903-4-6-7-9,	South End bridge at Connecticut River, .	Southerly,	3.10	3.10 }	3000
Agawam,		End of 1909 section to Connecticut line, .	Southerly,	68.	68.	45,560 95
Amesbury,	1899-1901-3-4,	Merrimae line,	Easterly,	2.25	2.25	2 0
Amesbury,	1906-7,	Salisbury line,	Westerly,	77.] TT.	32,713 85
Amherst,	1901–4,	Hadley line,	Northeasterly,	16.	76.	11,612 42

AE 14E 97	17 041'04	841 89		63,927 37		35,282 05	12 656 90	10,000 20	90 996 69	70 000,67	90 799 11	20,126 11	40,036 85			49,957 14			20,054 27	106 605 99	100,039 20
1.22	2.97	.12	3.57	.48	.13	1.61	1.47	1.73	1.61	1.49 ∫	2.65	74 ∫	5.28	1.91	4.27	1.22	2.26	1.48	2.89	5.56	96.
1.22	2.97	79. *	3.57	.48	.44	1.61	1.47	1.73	1.61	1.49	2.65	.74	5.28	1.91	4.27	1.22	2.26	1.48	2.89	5.56	.59
•	•	•		٠	٠	•	٠		٠	•	٠	٠	•	•	٠		•	٠	•	•	1
·						į	•			·									i		
									·	·	·										3
		у,		ly,	ly,					ly,	ly,	ly,	·ly,						ly,		1
. Southerly,	Northerly,	Southeasterly,	Northerly,	Southwesterly,	Southwesterly,	Northerly,	Easterly, *	Southerly,	Easterly,	Northwesterly,	Southwesterly,	Northwesterly,	Southwesterly,	Westerly,	Easterly,	Easterly,	Westerly,	Southerly,	Northwesterly,	Westerly,	1
-	·	·	·	·	•	•	٠	·	٠	٠	·	٠	•	•	٠	·	•	•	·	•	•
Lawrence linc,	North Reading line,	New Hampshire State line,	Fitchburg line to Ashby post office,	Townsend line,	End of 1910 section,	One mile north of Ashfield post office,	Southborough line,	Framingham line,	Orange line,	Phillipston line,	North Attleborough line,	Norton line,	Worcester line to Oxford line,	Yarmouth line,	Sandwich line,	Easterly end of 1910 section,	Yarmouth line,	Marston Mills,	Ware River to Barre Common, .	Chester line,	Point on Becket-Lee Road,
•	·	·	•	·	•		•	·	•	·	·	·		•	·	·	·	·	·	•	•
			- 1										01-3-		•						
	1897-9-1900-2-3,	,1161	1894-5-6-7-8-9,				1903,		1895-6,	1902-3,	1900-1-3,		1895-6-7-8-9-1901-3-4,		1899-1902-7-10,		1897–1901,	1904,		1902-4-5-6-8,	
		٠	•	•		•	٠	•	٠	•	•	•	•	•		•	•		٠	•	•
							٠	٠		٠		•	٠					٠	٠	•	•
Andover,	Andover,	Ashburnham, .	Ashby,	Ashby,	Ashby,	Ashfield,	Ashland, .	Ashland,	Athol,	Athol,	Attleborough, .	Attleborough, .	Auburn,	Barnstable (north),	Barnstable (north),	Barnstable (north),	Barnstable (south),	Barnstable (west),	Barre,	Becket,	Becket,

¹ Exclusive of 1,100 feet_at_railroad crossing.

Table showing the Highways laid out or contracted for by the Commission, etc. — Continued.

Construc- tion Ex-	penditures to Dec. 1, 1911.		\$22,145 82	22,534 14		22,866 35	5,142 81	11,476 78		33,169 42	7,132 37		44,970 91	133,592 53		37,444 77		20,568 34	14,798 70
Length	structed (Miles).	1.07	.58	2.35	.55	2.63	77.	2.70	2.01	3.67	.58	2.55	90.	1.40	2.09	3.53	1.09	3.31	1.06
	Length (Miles).	1.07	.58	2.35	.55	2.63	77.	2.70	2.01	3.67	.58	2.55	90.	1.40	2.09	3.53	1.09	3.31	1.06
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ROAD LAID OUT.	Dir	Northwesterly,	Southeasterly,	Westerly, .	Northeasterly,	Westerly, .	Northwesterly,	Easterly, .	Southerly, .	Southwesterly,	Southeasterly,	Southeasterly,	Southwesterly,	Northeasterly,	Easterly, .	Southerly, .	Southerly, .	Northwesterly,	Southeasterly,
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Re		•	٠	٠	٠	٠	٠	٠		•	•	٠	ne,	•	٠	•	٠	•	٠
	From —	Lexington line,	Carlisle bridge,	Near depot,	Blackstone line,	Franklin line to Mendon line, .	Lakeville line,	Falls River to Gill line,	Wenham line,	Manchester line,	Near "Common,"	Uxbridge line,	Bellingham line to Woonsocket line,	Dedham line to Lagrange Street,	Cohasset Narrows,	Back River bridge,	Southerly end of 1910 section, .	Acton line to Harvard line,	. Quincy line to Fore River,
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Voor	T Carr	1897-1902,	1903-6,	1900-1-2-7-8,	1902-5,	1904-5-6,		1911,	1895-7-8,	1905-6,	1908,	1899-1900-2-9,	1905,	. 1908,	1897-8-1904,	1903-5-7-10,	. ,1161	1897-9-1905-7,	. 1900-2,
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TOWN OR CITY		Bedford, .	Bedford, .	Belchertown,	Bellingham,	Bellingham,	Berkley, .	Bernardston,	Beverly, .	Beverly, .	Billerica, .	Blackstone,	Blackstone,	Boston, .	Bourne, .	Bourne, 2	Bourne, .	Boxborough,	Braintree, .

200	31,001 31	35,481 79		24,917 96		31,490 15			61,174 12		62,580 95	33,666 12	25,555 28	19,782 22			61,174 12				45,769 35
7.78	.04	3.47	2.34	1.63	1.87	99.	99.	.87	77.	2.25	4.29	3.80	3.23	77.	1.91	.84	.29	1.69	1.07	4.04	3.13
7.78	.04	3.47	2.34	1.63	1.87	99.	99.	78.	77.	2.25	4.29	3.80	3.23	.77	1.91	.84	.29	1.69	1.07	4.04	3.13
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Easterly,	Southerly,	Northwesterly,	Southerly,	Northerly,	Easterly,	Westerly,	Northerly,	Easterly,	Southwesterly,	Easterly,	Westerly and southerly,	Northwesterly,	Northerly,	Easterly,	Southerly,	Easterly,	Southerly,	Southwesterly,	Southwesterly,	Westerly,	Northwesterly,
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is lir	ins li	ton]	il no	s line	on lin	gton	Brid	Broo	cer li	kfield	urne	ırn li	ghton	field	Iton	Cha	Cha	d lin	erly e	t Str	t Str
Dennis line to Orleans line,	Orleans line to Chatham line,	Taunton River,	Monson line,	Wales line,	Easton line,	Abington line,	West Bridgewater line,	West Brookfield line,	Spencer line,	Brookfield village,	Shelburne Falls station,	Woburn line to Billerica line,	Stoughton line, .	Deerfield River bridge,	Charlton depot to Charlton City,	Near Charlton City,	Near Charlton City,	Oxford line,	Westerly end of 1910 section,	Depot Street to Harwich line, .	Depot Street to Harwich line,
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1895-6-7-1901,	1908,	1904-5-6-7-8,	1897-9,	1901-2,	1897-8-9,	1900,	1904,	1902-3,	1905-7,	1897-8-1900-4,	4-5-6	1903-4-5-6,	1905-6-7-8,	1897-8-9,	1901-2,	1905-6,	6	1907-10,	1,	1899-1901-2-5-6,	7,
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Brewster,	Brewster,	Bridgewater,	Brimfield,	Brimfield,	Brockton,	Brockton,	Brockton,	Brookfield,	Brookfield,	Brookfield,	Buckland,	Burlington,	Canton,	Charlemont,	Charlton,	Charlton,	Charlton,	Charlton,	Charlton,	Chatham,	Chatham,
Br	Br	Br	Br	Br	Br	Br	Br	Br	Br	Br	Bu	Bu	Can	Ch	Ch	Ch	СЪ	Ch	Ch	Ch	Che

¹ Exclusive of 143 feet at Boston & Maine bridge.

² Exclusive of 275 feet at railroad crossing.

Table showing the Highways laid out or contracted for by the Commission, etc. — Continued.

Construc- tion Ex-	penditures to Dec. 1, 1911.		eE9 001 09	400,001 04		25,382 66	57,738 77	73,528 19	K1 609 K4	*6 ce0,16	91 000 90	00 020,10	14 486 74	£1 0026£1	10 954 71	10,400,11	13,432 80	30 086 08	00 000,00	30,323 97
Length con-	structed (Miles).	2.42	1.27	86.	1.10	96.	4.19	6.62	626.	2.97	4 99	€ 29.	16.	.12	1.73	.55	2.13	1.47	2.12 ∫	2.56
	Length (Miles).	2,42	1.27	86.	1.54	96.	4.19	6.62	.92	2.97	4.99	1.23	76.	.12	1.73	.55	2.13	1.47	2.12	2.56
Road laid out.	Direction.	Westerly and northerly,	Southwesterly,	Southwesterly,	Southwesterly,	Southwesterly,	Northeasterly,	Southeasterly,	Northerly,	Northerly,	Northeasterly and southwesterly,	Southwesterly,	Northeasterly and northerly, .	Northerly,	Easterly,	Southerly,	Northerly,	Northwesterly,	Southeasterly,	Easterly,
ROAD I	From —	Lowell line to Tyngsborough line,	Lowell line toward Chelmsford Centre, .	Near Chelmsford Centre,	Southwesterly end of 1908 section,	Lewis Street and Eastern Avenue,	Lanesborough line,	Becket line to Huntington line,	Springfield line,	Chicopee River,	Beetlebung Corner,	West Tisbury line,	North Adams line,	Red Mill bridge,	Near Hingham line,	Beechwood Street to Scituate line,	Shelburne line,	Lincoln line,	Acton line,	Pittsfield line,
,	rear.	1898-9-1901-7-10,	1903-4,	1908,	1911,	1901–4,	1899-1900-1-2-10,	1899-1900-1-2-4-5-9-10-11,	1897-8-9,	1902-3-4-5-6-7,	1905-6-8-9,	1911,	1905-7,	1909,	1897-8-1900,	1902-3,	1898-1901-5,	1897-8,	1900-5-6,	1895-6-1903-4,
· Avenue Ch	TOWN OR CITY.	Chelmsford, 1	Chelmsford,	Chelmsford,	Chelmsford,	Chelsea,	Cheshire,	Chester,	Chieopee,	Chieopee,	Chilmark,	Chilmark,	Clarksburg,	Clarksburg,	Cohasset, ²	Cohasset,	Colrain,	Concord,	Concord,	Dalton,

² Exclusive of 800 feet at railroad crossing.

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37,324 72	1,040 87		200	02 006,68		000	06 062,16		00 027	39,450 00		00000	19,902 01	11,528 29	16,464 08	25,442 00	37,486 65	26,238 48	000 10	21,382	19,867 65
4.54	.03	1.53	1.44	4.32	80.	4.27	3.23	1.56	1.22	.78	1.09	1.60 }	.54	2.18	1.83	2.29	5.16	6.46	1.32	1.10	1.80
4.54	.03	1.53	1.44	4.32	80.	4.27	3.23	1.56	1.22	1.02	1.09	1,60	.54	2.18	1.83	2.29	5.16	6.46	1.32	1.10	1.80
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. Westerly,	Southerly, .	Southeasterly,	Southerly, .	Northerly, .	Connecting 1910 sections,	Northeasterly,	Easterly, .	Easterly, .	Southwesterly,	Southerly, .	Northerly, .	Southeasterly,	Southeasterly,	Westerly, .	Northeasterly,	Southwesterly,	Southerly, .	Southerly, .	Southwesterly,	Northerly, .	Southeasterly,
•	•	•	•	•	•	•	•	•	•	•	•	•	•	. •	•	•	•	•	•	•	•
. New Bedford line to Smith's Mills,	Boston line,	South Deerfield to Sunderland bridge,	Deerfield River bridge,	South Deerfield,	At Wapping Underpass,	Yarmouth line to Brewster line,	Bass River to Harwich line,	Taunton line to Rehoboth line, .	Three Mile River bridge,	Southerly end of 1908 section,	Near Somerset line,	Sutton line at Manchaug,	Main Street,	Charles River,	Near Lowell line on Methuen Road,	Near Webster line,	Marshfield line to Kingston line,	Wellfleet line to Orleans line,	Northampton line,	Mount Tom at Clark Street,	Springfield line to village,
1898-9-1900-1-3-5, .		1894–5,	1900-1-2-3,	1904-5-6-7-8-9-10,	1911,	1895-6-7-8,	1900-1-2-4-6,	1902–3,	1905-6-8,	1911,	1909–10,	1902–4,	1905,	1905–7,	1905-6-7,	1902-4-6-7,	1894-5-7-9-1903-5-8-9,	1903-4-5-6-9,	1895-6,	1900-1,	1904-6-10,
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Dartmouth, .	Dedham,	Deerfield,	Deerfield,	Deerfield,	Deerfield,	Dennis (north), .	Dennis (south), .	Dighton (north),	Dighton (south),	Dighton (south),	Dighton (south),	Douglas,	Douglas,	Dover,	Dracut,	Dudley,	Duxbury,	Eastham,	Easthampton, .	Easthampton, .	East Longmeadow,

¹ Exclusive of 1,000 feet at railroad crossing.

Table showing the Highways laid out or contracted for by the Commission, etc. -- Continued.

Brockton line,
Oak Bluffs line,
Town hall to Orange line,
Millers Falls,
Near town hall,
Essex River,
Mattapoisett line,
Bourne line to Woods Hole,
East Falmouth to Waquoit,
Westminster line,
Lunenburg line,
Ashby line,
Mansfield line,
Wrentham line,
Southborough line, Pleasant Street,
Ashland line, Hollis Street,
Bellingham line,
Wrentham line,

18 594 71	10,024 11	44 409 17	11,001,11	47 009 29	41,895 05	46,440 20	20,322 19	44 100 10	44,129 Iô	44,862 68		43,609 86		25,906 25	22,613 35	73,381 51	00 001	70 90/02	51,922 27	9,041 43	6,258 20
3.19		2.38	∫ 86.	3.46	.52	2.46	2.05	.2.26	1.50	3.41	1.33	3.77 {	.26	1.41	1.72	4.69	1.44	1.22	3.23	1.85	.82
3.19	89.	2.38	86.	3.46	.52	2.46	2.02	2.26	1.50	3.41	1.33	3.77	.26	1.41	1.72	4.69	1.44	1.22	3.23	1.85	.82
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. Northerly, .	Northeasterly,	Easterly, .	Northwesterly,	Northerly, .	Southerly, .	Northwesterly,	Southeasterly,	Easterly, .	Easterly, .	Easterly, .	Easterly, .	Southwesterly,	Northerly, .	Southeasterly,	Northeasterly,	Easterly, .	Southwesterly,	Northeasterly,	Westerly, .	Northwesterly,	Northerly, .
New Bedford line to Lakeville line,	Fall River line, Assonet,	Templeton line,	Westminster line,	Manchester line to "Cut bridge,"	Rockport line,	Williamsburg line,	Millbury line,	South Hadley line,	North Street,	Housatonic River bridge,	Washington Street,	Bernardston linc,	Point on Colrain Road,	Pepperell line,	Merrimac River bridge to West Newbury	Connecticut River to Amherst line,	Ipswich line,	Wenham line,	Pittsfield line to New York line,	Pembroke line,	New Braintree line,
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				3-7,	١.			3,													
1902-3,	1908,	1897-8,	1900-1,	1894-5-8-1905-6-7,	1907,	1894-5-8,	1897-9-1900-5,	1894-1902-5-6-8,	1911,	1894-6-7-1902,	1899-1900-2,	1903-6-7-8-10,	1905,	1901-2-7,	1900-1-2-5,	1894-1904,	1899-1900,	1909-10,	1895-6-8-9,	1906-8,	1897–1901,
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Freetown,	Freetown,	Gardner,	Gardner, , .	Gloucester,	Gloucester,	Goshen,	Grafton,	Granby,	Granby,	Great Barrington,	Greenfield, 1	Greenfield,	Greenfield,	Groton,	Groveland,	Hadley,	Hamilton,	Hamilton,	Hancock,	Hanover,	Hardwick,

¹ Exclusive of 500 feet at Cheapside bridge and 1,100 feet at railroad crossing.

Table showing the Highways laid out or contracted for by the Commission, etc. — Continued.

The second secon	Construc- tion Ex-	to Dec. 1, 1911.	\$29,361 41	29 409 04	*U 60*,66	02 000 07	48°300 90	001	71 961'01	17 000 41	15 066'01	13,488 38	15,373 19	70 00 1	06 662,16	01 001 01	18 100,16	22,601 99	8,142 03	00 010 00	60 010°02
	Length con-	structed (Miles).	2.31	5.10	1.38	2.65	€ 68.	2.66	2.63	1.42	1.24	1.02	1.75	4.21	.52	3.32	17.	4.16	1.14	1.01	1.25
		Length (Miles).	2.31	5.10	1.38	2.65	68.	2.66	2.63	1.42	1.24	1.02	1.75	4.21	.52	3.32	17.	4.16	1.14	1.01	1.25
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ı	D OU		Westerly,	Easterly,	Northerly,	Northerly,	Southerly,	Easterly,	Westerly,	Easterly,	Westerly,	Southeasterly,	Northwesterly,	Northwesterly,	Easterly,	Northeasterly,	Southerly,	Southerly,	Southerly,	Westerly,	Southeasterly,
I	ROAD LAID OUT.		<u></u> ≽	Ξ.	<u>z</u>	<u>z</u>	ν <u>α</u> 	<u> </u>		-	<u>≽</u>	ν <u>Σ</u>	$\frac{z}{\cdot}$	$\frac{z}{\cdot}$	<u> </u>	$\frac{z}{\cdot}$	<u>.</u> 2	υ <u>Σ</u>	<i>₹</i> 2	× .	- <u>Λ</u>
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ı			ngh	line	m lin	mpto	, line	Roa	nd M	uth 1	ohase	line,	uth 1	er lir	d line	line,	l line	npto	n Str	line,	line
ı			Boxborough line to Harvard Common,	Dennis line to Chatham line,	Chatham line to Brewster line,	Northampton line,	Whately line,	Kenoza Road to Merrimac line,	ver a	Weymouth Back River,	Near Cohasset line,	Dalton line,	Weymouth line,	Worcester line to Jefferson village,	Rutland line,	Milford line,	Ashland line,	Easthampton line,	Brigham Street to Marlborough line,	Russell line,	Chester line,
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ı			1900-5-10,	1899-1900-1-2-3,	1908,	1901-6-8-9-10,	1911,	1902-7-10,	1899,	1894,	1896-7,	1901-2-3,	1894-6-1902,	1898-1900-8,	1905,	1906-7-10,	1911,	1910,	1906-7,	. 1895-6,	. 1903–6–9,
ı				18	. 19										- 19		- 10				
	>	к.																			
	1	TOWN OR CILY.																			
	5	OK																			
	T.V.	Zi A	3,	l,	,			ill,	ill,	m,	m,	le,	ok,			'n,	'n,	6,	۲,	gton,	gton,
1	E	01	Harvard,	Harwich,	Harwich,	Hatfield,	Hatfield	Haverhill,	Haverhill,	Hingham,	Hingham,	Hinsdale,	Holbrook,	Holden,	Holden,	Holliston,	Holliston,	Holyoke,	Hudson,	Huntington,	Huntington,
1			Ha	На	Ha	Ha	Ha	Ha	H	Hi	Hi	Hi	Hc	HC	H	HC	HC	H	H	H	H

4 Exclusive of portion through Leicester village.

		,																				
	39,778 32		7,362 67		39,925 57		7,342 74	14,542 80	2,079 55		60 111 69	00,111,00		67,144 37		39,093 59		21,432 81	97 061 79	71 100'10	16,362 46	
2.13	1.37	.92	1.02	3.57	1.94	1.45	1.25	1.72	.27	2.86	1.26	1.03	6.	4.87	2.28	3.18	2.20	2.18	3.44	∫ 38.	2.06	
2.13	1.37	.92	1.02	3.57	1.94	1.61	1.25	1.72	.27	2.86	1.26	1.03	06.	4.87	2.28	3.18	2.20	2.18	3.44	.85	2.06	crossing.
•	•	•	•	. •	·	٠	٠	•	٠	•	٠	•	•	•	•	٠	٠	•	•	•	·	road
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		٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠,	٠	٠	٠	٠	٠	٠	٠	٠		eet a
	٠	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	,280 f
. Northerly, .	Southerly, .	Southerly, .	Southerly, .	Southwesterly,	Northerly, .	Northerly, .	Northerly, .	Southerly, .	Southerly, .	Easterly, .	Southerly, .	Southerly, .	Easterly, .	Westerly, .	Northerly, .	Southerly, .	Northerly, .	Northerly, .	Westerly, .	Southeasterly,	Northwesterly,	³ Exclusive of 1,280 feet at railroad crossing.
Hamilton line to Ipswich Common,	Rowley line,	Southerly end of 1910 section,	Duxbury line,	Near Middleborough line,	Freetown line,	Northerly end of 1910 section,	Clinton line to Sterling line,	Cheshire line,	Methuen line,	Lee Park to Strickland House,	Lenox line to Lee village,	Lenox line, Stockbridge Street,	Stockbridge line, Main Street,	Worcester line to Spencer line,	Lee line to Lenox village, Walker Street, .	Pittsfield line to Lenox village,	Lee line to Lenox village, Kemble Street,	Sterling line,	Massachusetts Avenue,	Bedford line,	Lexington line to Concord line,	*eåt
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	·	d bric
			1905-6,			11,				1894-5-6-1908-9,						1904–5,		1901–2,				Exclusive of 67 feet at railroad bridge.
190	191	191	190	190	191	1911,	1902,	191	189	189	1900,	190	190	189	189	190	 190	190	189	190	189	ive o
·			·		·		·		•					•	•	•			•	•		xclus
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	·	·	·	i	i	·	·	, s, d	i	i	i	·	·	·	•	·		·	•			
pswich,	pswich,	pswich,1	Kingston, .	akeville, .	akeville, .	akeville, .	ancaster, 2.	anesborough,	. awrence,	ree,	, , , , , ,		ee (south),	eicester, 4 .	enox,	enox,	enox,	eominster,	exington, .	exington, .	incoln, .	

¹ Exclusive of 67 feet at railroad bridge.

² Exclusive of 1,100 feet at railroad crossing.

Table showing the Highways laid out or contracted for by the Commission, etc. — Continued.

Construc-	to Dec. 1,	¢14 109 13	01 701,110	99 809 93	07 760,477	36,479 86	140,944 06	10 068 19	at Contat		30,984 13			63,684 51			54,256 61	9A K99 K7	o organiza	7,063 06
Length con-	structed (Miles).	2.65	.32) 26.	1.33	4.12	06:	.72	49	1.59	1.84	2.14	3.10	2.42	18.	1	8.28	1.16	2.05	1.83
	Length (Miles).	2.65	.32	76.	1.33	4.12	. 06.	.72	.49	1.59	1.84	2.14	3.10	2.42	18-	.46	8.28	1.16	2.05	1.83
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			•	٠	•	•	•	•	•	٠	٠	٠	•	٠	٠		•		•	
	on.		•	•	٠	٠	•	•	•	٠	•		•	•	•	•	•	•	•	
	Direction.							i												
Road Laid out.	а	Northerly,	Southwesterly,	Easterly,	Easterly,	Easterly,	Northeasterly,	Southeasterly,	Northerly,	Northeasterly,	Westerly,	Northwesterly,	Westerly,	Easterly,	Southerly, .	Southwesterly,	Northwesterly,	Easterly,	Westerly,	. Northeasterly,
OAD L		•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Ro	From	Acton line, Great Road,	Westford line to Great Road,	Tyngsborough line,	Chelmsford line,	Fitchburg line,	Saugus River to Sea Street,	Foxborough line,	Norton line,	Marion village to Wareham line,	Marion village to Mattapoisett line, .	Marion village to Rochester line,	Sudbury line to Hosmer Street,	Northborough line,	Hudson line,	Southerly end of 1910 section,	Duxbury line to North River bridge,	Fairhaven line,	Marion line,	Falmouth line,
												•					i			
	Year.	1902-3-4,	1902,			1898-9-1900-1-3-10, .				1894–5–1911,	1897-9-1901-2, .	1903,	1897-1902-3-4, .	1897-9-1900-1, .	1908,		1894–1910,	1894–5,	1900-1-3,	. 1911,
	TOWN OR CITY.	Littleton,	Littleton,	Lowell (Boulevard),	Lowell (Princeton Street), .	Lunenburg,	Lynn,	Mansfield,	Mansfield,	Marion,	Marion,	Marion,	Marlborough (east),	Marlborough (west),	Marlborough,	Marlborough,	Marshfield,	Mattapoisett,	Mattapoisett,	Mashpee,

30,974 24	5,056 49	93 309 60	20,000	39,868 20	57 50A 38	00 200'10	31 014 44			28,157 11		11,344 26		16,177 00		50 034 75	200,000	52,893 84	21 563 53	
98.	.40	1.03	1.20	3.69	8.98	3.47	1.75	1.80	.78	1.61	.59	.87	.93	.39	29	4.05	1.68	6.48	1.14	2.06
98.	.40	1.03	1.20	3.69	8.98	3.47	1.75	1.80	.78	1.61	.59	.87	.93	.39	.29	4.05	1.68	6.48	1.14	2.06
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	٠	٠												٠	sterly	٠	٠	٠		
. Northerly, .	Westerly, .'	Easterly, .	Southwesterly,	Northeasterly,	Southeasterly,	Southerly, .	Southeasterly,	Southwesterly,	Southeasterly,	Southerly, .	Northeasterly,	Southeasterly,	Northerly, .	Southeasterly,	Easterly and westerly, .	Easterly, .	Northeasterly,	Easterly, .	Westerly, .	Easterly, .
Somerville line via Mystic Avenue, .	Saugus line, Upham Street,	Haverhill line,	Amesbury line,	Lawrence line to Haverhill line,	Nemasket River to Rochester line, .	Bridgewater line to railroad bridge, .	Hopedale line via West Street,	Holliston line,	Worcester line to Grafton line,	Worcester line, Main Street,	Sutton line,	Neponset River at Granite bridge,	Railroad bridge toward Palmer,	Palmer line to Brimfield line,	Palmer line,	Third Street near L Street, Turners Falls,	Connecticut River bridge,	First mile stone to Siasconset,	Wellesley line to Lincoln Square,	Sherborn line to Cemetery Street,
								•												
1907,	1906,	1897-8-9-1910,	1901–3,	1896–1908,	1894-1903,	1906-7-8,	1904–5,	1909–10,	1902,	1900-3-4,	1906,	1899–1900,	1894,	1901–5,	1908,	1898-9-1904-6-10,	1905–9,	1894-1903,	1901,	1903,
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fedford, .	felrose, .	ferrimac, .	ferrimac, .	Tethuen,	fiddleborough,	Fiddleborough,	lilford, .	lilford, .	fillbury, .	fillbury, .	fillbury, .	lilton, 1	lonson, .	Ionson,	fonson,	Iontague, .	Iontague, .	Vantucket, .	Vatick, .	fatick, .

¹ Exclusive of 1,000 feet at railroad crossing.

Table showing the Highways laid out or contracted for by the Commission, etc. — Continued.

;
Newton line,
Charles River bridge, Chestnut Street,
Hardwick line to Ware line,
. New Braintree village,
Newburyport line to Rowley line,
. West Newbury line,
. Needham line, .
Walpole line to Wrentham line,
. Williamstown line,
Ashland Street bridge to Adams line,
. Lawrence line,
Park, Pleasant and Court streets,
Junction of Sutton and Clark streets,
. Connecting 1907 sections,
Hadley bridge,
. Easthampton line,
Bruce Avenue to Attleborough line,

	00 000 70	61 700,00		31,295 14	9,966 84	99 406 96	06 00#,22	. 10	2,520 00	10 700 19	61 061661	20,929 85	29 064 69	00 \$00,20	90 241 04	120,04	99 696 41	12 000,42		129,184 12	
1.33	.47	2.19	.42	2.25	1.16	2.31	.23	.50	4.19	1.03	1.02	2.37	2.18	2.62	1.98	2.72	.85	1.34	2.52	5.29	2.11
1.33	.47	2.19	.42	2.25	1.16	2.31	.23	.50	4.19	1.03	1.02	2.37	2.18	2.62	1.98	2.72	.85	1.34	2.52	5.29	2.11
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Southwesterly,	Westerly, .	Easterly, .	Northwesterly,	Northerly, .	Southerly, .	Southerly, .	1	Southerly, .	Easterly, .	Northerly, .	Southerly, .	Northerly, .	Westerly, .	Easterly, .	Northeasterly,	Northerly and northwesterly,	Southwesterly,	Northeasterly,	Southeasterly,	Easterly, .	Easterly, .
Marlborough line,	Westerly end of 1898 section,	Shrewsbury line,	Westborough line,	Brookfield line,	Near Mill Brook,	Andover line,	Connecting sections at railroad bridge, .	Mansfield line,	Attleborough line to railroad station,	Walpole line,	Westwood line,	Sengekontacket bridge,	Athol line,	Erving line,	Brewster line to Eastham line,	Brewster line towards Shattuck's Corner,	Auburn line,	Charlton line,	Tennyville to Monson line,	Near Quaboag River bridge to Warren line, Easterly,	Wilbraham line,
•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•	٠	•	٠	•
i	·	·	·	i	i	i					·	i				·					
, 1897–8,	1911,	1900-2-4,	1897,	1905-6-7-8-10,	1901–2,	1897-8-1901-3, .		1906,	1908-9-11,	1897–9,	1895-6,	1894-5-6,	1894-5-7,	1900-1-3-4-5,	1900-1-4,	1903-4-5,	1906-7,		1899-1900-1,	1905-8,	1906-8-9, .
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Northborough (east), .	Northborough,	Northborough (west),	Northborough (south),	North Brookfield, .	Northfield,	North Reading,	North Reading,	Norton,	Norton,	Norwood (south), .	Norwood (north), .	Oak Bluffs,	Orange,	Orange,	Orleans,	Orleans,	Oxford,	Oxford,	Palmer,	Palmer,	Palmer,

Table showing the Highways laid out or contracted for by the Commission, etc. — Continued.

Construc- tion Ex-	to Dec. 1, 1911.	\$47,640 94	2,943 64	22.660 05		31,102 16		80,476 55		F 877 78	2		73,479 38		21,921 14	7,669 68		26,587 83		13,265 20
Length con-	structed (Miles).	3.60	.35	.83	1.17	2.78	3.05	2.37	1.58	1.81	∫ 6 <i>þ</i> ·	5.05	2.26	1.10	2.23	1.10	.49	.95	1.23	1.90
	Length (Miles).	3.60	.35	.83	1.17	2.78	3.05	2.37	1.58	1.81	.49	5.05	2.26	2.60	2.23	1.10 -	.49	.95	1.23	1.90
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						erly,														
	tion.	١.				heast														
Road laid out.	Direction.	Northwesterly,	Southerly, .	Northwesterly,	Northwesterly,	Easterly and northeasterly,	Easterly, .	Southwesterly,	Southerly, .	Southerly, .	Northerly, .	Northerly,	Southerly, .	Southerly, .	Easterly, .	Westerly, .	Southeasterly,	Northerly, .	Northerly, .	Southeasterly,
ROAD L	From —	Worcester line,	Hanover line,	Nashua River bridge,	Westerly end of 1910 section,	Athol line to Templeton line,	Hancock line,	Dalton line,	South Mountain Road to Lenox line,	Wrentham line,	North Attleborough line,	Manomet village,	Manomet village,	End of 1910 section,	Princeton depot,	Truro line to Allerton Street,	Chubbuek Street to Fore River bridge, .	Braintree line,	Randolph line to Milton line,	Quincy line,
*	Year.	1895–1902,	1905,	1907–10,	1911,	1897-8-1902-4-9,	1894-8-1901-2,		1894–5,	1894–5,	1911,	1894–1904,	1907–10,	1911,	1897-1900-2-3,	1901–3,		1902–9,	1904,	. 1902–3–9,
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	CITY				٠		•						•	•	•				i	•
	TOWN OR CITY.	Paxton,	Pembroke,	Pepperell, 1	Pepperell,	Phillipston, .	Pittsfield,	Pittsfield,	Pittsfield,	Plainville,	Plainville,	Plymouth,	Plymouth,	Plymouth,	Princeton,	Provincetown, .	Quiney,	Quincy,	Quincy,	Randolph,

13,953 79	00 088 90	66 000,62	53,370 57	20 219 40	6* 610,00	33,207 08	0 674 70	0, 4,0,0	13,442 30	19,112 49	19 091 08	00 176,01	84,371 81	8,981 39	18,080 66		30,605 05		33,991 65	94 791 09	76 101,40
1.48	1.07	2.67	6.03	.58	∫ 29.	4.02	5.27	∫ 06.	2.35	1.60	2.90		99.9	1.16	1.40	1.43	2.41	.40	4.31	1.60	∫ 61.
1.48	1.07	2.67	6.03	.58	29.	4.02	5.27	06.	2.35	1.60	2.90	.74	99.9	1.16	1.40	1.43	2.41	1.23	4.31	1.60	.19
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	٠	٠		•	•	٠	•	٠	٠	•	٠		•			erly,		٠	٠	٠	•
	٠	٠	•		•	٠	٠		٠	٠	٠	٠	•	٠	٠	south	•		٠	٠	
Northeasterly,	Northerly, .	Southerly, .	Easterly, .	Northeasterly,	Southwesterly,	Northerly, .	Westerly, .	Southeasterly,	Easterly, .	Northerly, .	Southwesterly,	Northerly, .	Northeasterly,	Northwesterly,	Northeasterly,	Northerly and southerly,	Southerly, .	Easterly, .	Westerly, .	Southerly, .	Southeasterly,
•	•	٠			•	•		•	•	•	•	•	•	•	•	٠	·	•	·	•	
	٠	٠	٠	٠	٠		٠	line,	٠	٠	٠	٠			٠	٠	٠	٠	٠	٠	•
. Taunton line,	Stoneham line,	. North Reading line,	. Seekonk line to Dighton line, .	Boston line,	Saugus line,	. Railroad station to Pittsfield line,	. Marion line to Acushnet line, .	. Middleborough line to Wareham line,	. Abington line to Hanover line,	Gloucester line,	. Newbury line,	. Ipswich line,	. Westfield line to Huntington line,	. Holden line,	. Swampscott line,	. Town Creek,	. New Hampshire line to village,	. Amesbury line,	. Barnstable line,	. Fox Hill bridge to Revere line,	. Melrose line,
													,						-10,		
1991-2-3, .	1899–1900,	1902-3,	1895-1908,		1899,	1897-1907,	1903,	,	1902-5-6, .	1902-6-10,	1905-7-8-9,	1911,	1894-5-6-7-8-9,	1904,	. ,6–1061	1904-5,	1910,	1911,	1897-8-1900-2-10,	. ,6681	1906,
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Raynham,	Reading,	Reading,	Rehoboth,	Revere,	Revere,	Richmond,	Rochester,	Rochester,	Rockland	Rockport,	Rowley,	Rowley,	Russell,	, Rutland,	Salem,	Salisbury,	Salisbury,	Salisbury,	Sandwich,	Saugus,	Saugus,

¹ Exclusive of 600 feet at railroad crossing.

Table showing the Highways laid out or contracted for by the Commission, etc. -- Continued.

Construc-	penditures to Dec. 1, 1911.	\$48,998 99		25,167 69		4,849 32	24,024 14	48,858 01		66,269 48		35,822 22	13,948 99		22,148 17		11 058 18	01 000411	44 909 09	51,050 00
Length	structed (Miles).	5.37	2.76	1.50		.64	2.16	4.86	5.38	2.40	.22	1.16	17.	1.89	.65	1.15	91	.45	2.42	3.33
	Length (Miles).	5.37	2.76	1.50	1.01	.64	2.16	4.86	5.38	2.40	.22	1.16	.71	1.89	.65	1.15	.91	.45	2.42	3.33
		•	•	•	•	•	·	•	•	•	•	•	•	•	•	•	٠	٠	٠	-
		٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠
	j.	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	•	٠	٠	٠	٠	٠	٠	٠
	Direction.	٠	٠	٠	٠	٠		•	٠	٠	•	•	٠	٠	٠	٠	٠	٠	٠	٠
Road laid out.	Dir	Southerly, .	Westerly, .	Southeasterly,	Southeasterly,	Northeasterly,	Northeasterly,	Northeasterly,	Northerly, .	Northeasterly,	Northerly, .	Southeasterly,	Southerly, .	Easterly, .	Westerly,	Southwesterly,	Southwesterly,	Easterly, .	Southwesterly,	Northerly, .
AD L.		•	•	•	•	•	•	•	•	•	·	•	•	•	•	•	•	•	•	-
RoA	From —	Cohasset line to Marshfield line,	Rehoboth line to Rhode Island line,	Perry Avenue via Fall River Avenue,	Southerly end of 1910 section,	Foxborough line,	Bridge Street to Colrain line,	Worcester line to Northborough line,	Slade's Ferry bridge,	Slade's Ferry bridge to Swansea line,	Slade's Ferry bridge, Brayton Avenue,	Medford line via Mystic Avenue, .	Easthampton line,	Westborough line,	Ashland line,	Framingham line,	Charlton line,	Sturbridge line,	Granby line to South Hadley Falls,	South Hadley Falls,
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;	Year.	1894-1910,	1900-1-2-4,				1894–5–6, .	1895-1904,	1895–1910,	1903-4-9, .		1908,	1905-9,	1902-5,			1902,		1895-7-8-9-1900,	1903-4-9,
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	TOWN OR CITY.	Scituate, .	Seekonk, .	Seekonk, .	Seekonk, .	Sharon, .	Shelburne, .	Shrewsbury,	Somerset, .	Somerset, .	Somerset, .	Somerville, .	Southampton,	Southborough,	Southborough,	Southborough,	Southbridge,	Southbridge,	South Hadley,	South Hadley,

	43 \\ 42,468 06			35,631 90		92 406 55	00 002.607	14 886 90	ne neoter	91 030 80	700,000	29,214 79	36,074 70	22,919 54	15 405 41	12 002401	29,433 53		33,917 18	
1.60	1.43	.02	1.29	1.84	95.	1.06	2.24	.57 }	1.01	1.16	2.14	2.36	5.11	1.56	1.46	_ 82	1.49	3.35	69.	1.93
1.60	1.43	.03	1.29	1 84	.56	1.06	2.24	.57	1.01	1.16	2.14	2.36	5.11	1.56	1.46	.82	1.49	3.35	.78	1.93
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Westerly,	Easterly, .	1	Southwesterly,	Southwesterly,	Southerly, .	Westerly, .	Southwesterly,	Northerly, .	Southerly, .	Southerly, .	Northerly, .	Northwesterly,	Easterly, .	Southeasterly and southerly,	Southerly, .	Northerly, .	Southwesterly,	Northwesterly,	Northwesterly,	Southeasterly,
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. Leicester line,	Brookfield line,	Soven Mile River bridge, .	Near town hall,	Lancaster line,	Leominster line,	Lee line at South Lee, .	Lee line at East Street, .	South Street,	Reading line,	Canton line to Lincoln Street,	Easton line to Walnut Street,	Southbridge line,	Marlborough line to Wayland line,	Connecticut River bridge,	Millbury line,	Douglas line at Manchaug,	Salem line to Burrell Street,	Somerset line,	Northerly end of 1910 section,	Myles River bridge,
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	1906-10,		1897-8,	1905-7-9,		1905-9,	1906,	1897-8,	1900-1,	1902-3,	1904–5,	1897-1903-4-7-9,	1897-8-1900-1-2-3,	1897-1903-4-5-7-9,	1899–1901–2,	1903-4,	1897–1900–1,	1903-6-9-10,		1903-7,
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Spencer, .	Spencer, .	Spencer, .	Sterling,	Sterling, .	Sterling, .	Stockbridge,	Stockbridge,	Stoneham, .	Stoneham, .	Stoughton, .	Stoughton, 1	Sturbridge, .	Sudbury, .	Sunderland,	Sutton, .	Sutton, .	Swampscott,	Swansea, .	Swansea, .	Swansea, .

¹ Exclusive of 250 feet at railroad bridge.

Table showing the Highways laid out or contracted for by the Commission, etc. — Continued.

-		to Dec. 1,		\$42,995 36		200	71 6/6,00	53,594 83	14,611 70	46,280 13	37,692 93	1	44 979 66	00 7/6,12		02 011 20	27,011 39	3,963 17		43,520 00	
	Length con-	structed (Miles).	2.94	1.07	99.	2.00	3.69	6.35	1.93	6.04	3.16	2.95	1.87	.45	.81	2.18	92.	1.04	2.60	1.94	1
		Length (Miles).	2.94	1.07	99.	2.00	3.69	6.35	1.93	6.04	3.16	2.95	1.87	.45	.81	2.18	92.	1.04	2.60	1.94	.03
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	AID OUT.	ROAD LAID OUT. Direct		Northeasterly,	Southeasterly,	Westerly, .	Northeasterly,	Southeasterly,	Southwesterly,	Northwesterly,	Northerly, .	Southeasterly,	Southerly, .	Northerly, .	Northerly, .	Northwesterly,	Northwesterly,	Southwesterly,	Northerly, .	Southerly, .	1
	ROAD LAID	From —	Dighton line, Winthrop Street,	Dighton line, Somerset Avenue,	Railroad crossing, County Street,	Gardner line at Otter River,	Phillipston line to Baldwinsville,	Lowell line to Wilmington line,	Vineyard Haven to West Tisbury line, .	Groton line to Ashby line,	Wellfleet line via Kelley's Corner,	Tyngsborough bridge to Lowell line,	New Hampshire line,	Chelmsford line,	Northerly end of 1910 section,	Blackstone line,	Blackstone River,	Brimfield line,	Norfolk line,	Norwood line,	Stetson bridge,
	Year.		1895-6-8-9-1900-1, .	1905-6,		1899–1901–2–3,	1905-6-7-8-9,	1900-1-2-3-4-5-6,			1895–1906,				1911,	1897-8-1901-3,	1909–10,		1894–5–7–1900,		
	TOWN OR CITY.		Taunton,	Taunton,	Taunton,	Templeton,	Templeton,	Tewksbury,	Tisbury,	Townsend,	Truro,	Tyngsborough,	Tyngsborough,	Tyngsborough,	Tyngsborough,	Uxhridge,	Uxbridge,	Wales,	Walpole (south),	Walpole (north),	Walpole,

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2.28	1.90	.71	1.48	1.82	3.53	88.	2.68	1.42	.85	2.58	.65	21]	1.18	4.65	1.76	.72	2.27	1.55	3.16	.15	1.51	1.02
2.28	1.90	.71	1.48	1.82	3.53	88.	2.68	1.42	.85	2.58	.65	.84	1.18	4.65	1.76	.72	2.27	1.55	3.16	.15	1.51	1.02
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Southerly,	Northeasterly,	Northeasterly,	Southwesterly,	Westerly,	Northwesterly,	Easterly,	Westerly,	Easterly,	Easterly,	Westerly,	Southerly,	Southerly,	Easterly,	Northerly,	Northerly,	Southeasterly,	Southwesterly	Northerly,	Southerly,	Southwesterly,	Northwesterly	Easterly,
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	rtow	Weweantit River bridge, Marion line,			ne,		:	ie,			Lake Street and Thompson Road,		ئد						Brockton line to Bridgewater line,			
	selche	Mar	Road	ຄົ	ter li	e,	r line	ld lif		line,	son I	٠	Stree	٠	n line				vater			
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ntree	f Pal	t Riv	High Street on Marion Road,	Cohasset Narrows bridge,	Parker's Mills to Rochester line,	Wareham Narrows bridge,	Warren village to Palmer line,	Warren to West Brookfield line,	Waltham line,	Weston line to Sudbury line,	et an	le,	Natick line to Blossom Street,	Eastham line,	Beverly line to Hamilton line,	Northborough line,	Southborough line,	Worcester line,	line	Ware line to Ware line,	l line	1e,
Brai	tion	eanti	Stre	rsset	er's l	ham	en vi	en to	ham	on liı	Stre	Oxford line,	ck Iir	ham	rly li	hbor	hbord	ester	kton	line	kfield	Warren line,
New Braintree line,	Junction of Palmer and Belchertown roads,	Wew	High	Cohe	Park	Ware	Warr	Warr	Walt	West	Lake	Oxfo	Nati	East	Вече	Nort	Sout	Word	Broc	Ware	Brookfield line,	Warr
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1897-9-1900-3,	1909-10,	1896-1901,	1906-7-10,	1898-1901,	1905-6-7-8,	1910,	1896-7-8-1907-8,	1899-1900-1,	1895-6,	1897-1900-3,	1908,	11,	1901,	1903-4-5-7,	1897-1901-3,	1897,	1903-6,	1897-8,	1900-1-2-4,	1899,	1899-1900-1)5,
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¹ Exclusive of 1,500 feet at railroad crossing and Concord River.

Table showing the Highways laid out or contracted for by the Commission, etc. — Concluded.

Road Laid Out. Road From From Direction. Length (Miles). 1894-6-8-9,
Year. From— 1894-6-8-9, West Springfield line, Basterly, 1902-3
From - From - From - From - From -
. 1894-6-8-9, Russell line,
Year. 1894-6-8-9, West Springfield 1888-9-1900-1-2, Russell line, Littleton line,
Year. 1894-6-8-9, West Springfield 1898-9-1900-1-2, Russell line,
Year 1894-6-8-9,
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N OR
TOWN OR CITY. Westfield, Westfield,

95 057 04			37,755 76		00000	9,520 ou	12,091 71	00 130	21,031 03	13,765 91		47,328 89		11 700 11	40,429 10	00 00	60 100'00
.13	1.95 ∫	1.88.)	.40	1.41	1.35	.35	1.96	.98	€ 88.	2.03	1.35	1.50	1.22	2.23	1.86	3.71	5.09 ∫
.13	1.95	1.88	.40	1.41	1.35	.35	1.96	86.	88.	2.03	1.35	1.50	1.22	2.23	1.86	3.71	5.09
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Southerly, .	Westerly, .	Southerly, .	Southerly, .	Northerly, .	Southwesterly,	Southwesterly,	Northeasterly,	Westerly, .	Southeasterly,	Northwesterly,	Southeasterly,	Southerly, .	Southerly, .	Northerly, .	Southeasterly,	Easterly, .	Easterly, .
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River_Road from village,	North Adams line,	Tewksbury line,	Near Boston & Maine Railroad depot,	Woburn line,	Glen Allen Road via Maple Street, .	Millers River bridge, River Street, .	Arlington line to Woburn line,	Cummington line,	Peru Street via Main Road,	Winchester line to Burlington line, .	Paxton line,	Holden line,	West Boylston line,	Plainville line,	Norfolk line,	Barnstable line to Dennis line,	Barnstable line to Bass River bridge,
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	1895-6-8-1903,	1907-8-10.	1910,	1911,	1907,	,7061	. 1899–1900,	1897-1902-3,	,7-9061	1900-1-2,		1897-1903,	1900–5,	1899-1900-1,	1897-8-1902,	1894-5-6,	1895-6-7,
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Williamstown, .	Williamstown, .	Wilmington, .	Wilmington, .	Wilmington, 3	Winchendon, .	Winchendon, .	Winchester, .	Windsor,	Windsor,	Woburn,	Worcester,	Worcester,	Worcester,	Wrentham,	Wrentham,	Yarmouth (north),	Yarmouth (south),

¹ Exclusive of 375 feet at railroad crossing and 800 feet at railroad bridge.

³ Exclusive of 300 feet at railroad bridge.

² Exclusive of 1,763 feet at North Wilbraham village.

APPENDIX 6

Table showing Towns and Cities in which Work has been done during the Year 1911, and the Resident Engineers on Such Work, together with Dates of Beginning and Ending.

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Date of Ending.		z. 21	30	v. 15		Sept. 16		e 24		7. 23		ئب		t. 11	. 22
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te gin-	2	19	30	18	-	-	2	, C			24	13	26	26	17
Date of Begin- j	Aug.	April	Oct.	Sept.	May	July 18, 1911 Aug.	June 13, 1911 Aug.	April 4, 1911 May	May 23, 1911 June	Sept.	April 4, 1911 April 24 Aug.	June 6, 1911 June 13	Sept. 27, 1910 June	April 18, 1911 June	R. W. Coburn, D. H. Dickinson, Aug. 1, 1911 Aug. 17 Dec.
	June 27, 1911	April 6, 1911	Sept. 19, 1911	Sept. 5, 1911	Aug. 23, 1910	11611	1911	1911	1911	Aug. 22, 1911	1161	11011	1910	1911	1161
Date of Contract.	s 27,	11 6,	. 19,	. 5	. 23,	18,	e 13,	11 4,	23,	. 22,	11 4,	9 6,	5. 27,	11 18,	Ι,
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Resident Engineer.	W. M. Stodder,	E. S. Bingham, E. R. Hyde,	٧.	ton,	ton,	ggs,	Cue,	C. M. Upham,	A. T. Edwards,	C. H. Lovejoy,	C. H. Lovejoy,	ker,	L. T. C. Loring,	L. T. C. Loring,	ourn,
Re	Sto	Bing	Gra	Nor.	Nor.	. Brig	. Mc	. Upl	Edw	. Lov	. Lov	. Par	C. I	C. I	3
	W. M	E3 X3	B. E. Gray, .	C. H. Norton,	C. H. Norton,	E. N. Briggs,	H. M. McCue,	C. M.	A. T.	C. H	C. H	H. O. Parker,	L. T.	L. T.	R. W
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	Plymouth,	Hampden,	Worcester,	Middlesex,	Middlesex,	Middlesex,	Worcester,	Bristol,	Barnstable,	Worcester,	Franklin,	Barnstable,	Worcester,	Worcester,	Middlesex,
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TOWN OR CE	Abington,	Agawam,	Ashburnham,	Ashby,	Ashby,	Ashby,	Athol,	Attleborough,	Barnstable, .	Barre,	Bernardston,	Bourne, .	Charlton, .	Charlton, .	Chelmsford, .

20	53	53	28	19	23	23	10	12	7	15	31	17	6	53	31	6	14	22	∞	=	2	=
May	Oct.	Oct.	Dec.	Sept.	Nov.	Nov.	April	Dec.	Dec.	July	Dec.	Aug.	May	July	Dec.	Nov.	Oct.	April	July	Nov.	Oct.	Dec.
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. Aug. 16, 1910 March 28 May	April 12	May	Oct.	April	Nov.	Oct.	March 9	Oct.	Sept. 16	April 24	Oct.	July	April	May	Nov.	Sept. 19	June	April 17	May	Aug.	Sept.	Aug.
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16, 18	6, 19	9, 19	23, 1911	18, 16	8, 19	8, 19	16, 18	11, 13	22, 19	6, 19	4, 19	20, 19	6, 19	11, 15	14, 19	8, 19	6, 19	7, 19	1, 19	25, 19	22, 19	8, 19
Aug.	April 6, 1911	May 9, 1911	May	Oct. 18, 1910	Nov. 8, 1911	Nov. 8, 1911	Aug. 16, 1910	July 11, 1911	Aug. 22, 1911	Sept. 6, 1910	Oct. 4, 1911	May 20, 1911	Sept. 6, 1910	April 11, 1911	Nov. 14, 1911	Aug. 8, 1911	June 6, 1911	June 7, 1910	June 1, 1910	July 25, 1910	Aug. 22, 1911	June 8, 1910
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E. S. Bingham, E. H. Smith,			:		m ^c	3	'n,			, e	le,	3,				*	L. P. Henderson,	D. H. Dickinson,	ım,	C. G. Richmond,	ım,	
ingh	E. H. Smith,	E. H. Smith,	E. J. Dahill,	W. G. Burns,	W. G. Burns,	W. G. Burns,	H. C. Holden,	W. G. Addis,	G. N. Willis,	H. M. McCue,	H. M. McCue,	H. M. Davis,	F. D. Sabin,	W. G. Burns,	W. G. Burns,	W. G. Burns,	ende	Dicki	E. S. Bingham,	lichn	E. S. Bingham,	F. D. Sabin,
S. B	H. S	H. S	J. D	G.1	G. J	G. J	C. I	G. 1	z.	M. 1	M.	M.	D. S	G. J	G.1	G.J	Р. Н	H.]	S.B	G. I	S.B	D.S
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Table showing Towns and Cities in which Work has been done, etc. — Concluded.

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APPENDIX H.

SHOWING CONTRACT PRICES ON

				LINOUS		CAVATIO		Con-
TOWN OR CITY.	Contract Number.	Contractor.	Oil (Square Yard).	Tar (Square Yard).	All Kinds (Cubic Yard).	Borrow (Cubic Yard).	Ledge (Cubic Yard).	Portland Cement crete Masonry.
Abington-Weymouth, .	1445 1420	Carchia Bros. Construc- tion Company. Cordner & Montague, .	- \$0 20	-	\$0 45 40	\$ 0 73	\$1 00 5 00	\$10 00 7 00
Ashburnham,	1474	Francis J. Mague,	_	_]	50	70	1 50	9 00
Ashby,	1455	Francis J. Mague, .	-	_	_	-	- 1	-
Ashby,	1471	David H. Damon, .	_	_	55	30	2 25	8 00
Attleborough,	1418	Charles E. Horne, .	420	_	80	75	-	-
Athol-Phillipston,	1437	Charles E. Horne, .	516	5\$0 061	2 00	_	1-1	-
Barnstable,	1431	Edward J. Rourke, .	_	-	40	55	2 00	9 00
Barre,	1465	P. F. Giovannini & Co.,	-	-	50	60	2 00	10 00
Bernardston,	1419	R. H. Newell & Co., .	865	- 1	50	50	2 00	8 00
Bourne,	1433	M. J. Denault Com-	-	-	40	50	1 00	7 50
Charlton,	1425	pany. Richmond F. Hudson, .	- "	-	50	70	1 50	8 00
Chelmsford,	1461	De Stefano & Di Chris-	1168	-	47	90	2 50	8 00
Chester,	1460	toforo. P. F. Giovannini, .	507	-	-	-	-	- 1
Chester,	1428	P. F. Giovannini, .	-	-	1 00	-	-	15 50
Chester,	1421	P. F. Giovannini, .	-	-	40	50	1 50	8 25
Chilmark,	1430	Town of Chilmark, .	13	-	-	-	-	-
Deerfield,	1480	Lane Construction Corporation.		-	60	65	-	1415 00
Deerfield,	-	Lane Construction Corporation.	-	-	60	65	-	-
Dighton,	1449	Herbert E. Cushing, .	5053	-	50	60	2 00	10 00
Egremont,	-	Caesar A. Rossi,	⁵ 15	-	38	55	1 70	8 00
Erving,	1476	Francis J. Mague, .	510	970	50	70	1 50	9 00
Fitchburg,	1442	New England Contract- ing Company.	516	508	1 40	-	-	-
Franklin,	1478	Town of Franklin,	81 00	-	50	- 60	2 00	9 00

¹ Fifteen-inch clay pipe.

² Ten-inch clay pipe.

³ Fifteen-inch iron pipe.

⁴ Including sand.

⁵ Exclusive of asphaltic oil.

⁶ Eight-inch clay pipe.

⁷ Sixteen-inch iron pipe.

⁸ Gravel per cubic yard.

APPENDIX H.

STATE ROADS DURING 1911.

Bro Sto	KEN NE.	P	IPE CUL	VERTS (P	ER LINE	AL FOOT).	t).	Foot).	Inder-		
			CLAY.			IRON.		F00	neal]	or U		Jach,
Local (Ton).	Trap (Ton).	Twelve-inch.	Eighteen-inch.	Twenty-four- inch.	Twelve-inch.	Eighteen-inch.	Twenty-four-inch.	Fencing (Lineal Foot).	Side Drains (Lineal Foot)	Stone Filling for Under- drains(per Cubic Yard).	Bounds (Each).	Catch-basins (Each).
\$1 4 5	-	\$0 60	\$1 5 0	¹ \$1 00	² \$ 0 50	-	-	\$0 30	-	-	\$2 00	-
-	\$2 20	-	-	- }	1 50	-	-	20	-	-	60	\$1 5 00
1∏55	- 1		-	-	32 50	-	-	30	-	\$0 80	2 00	-
1 69	- [-	-	- 1	-	- 1	-	_	-	-	-	-
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-	2 32	-	-	- 1	-	-	- 1	-	-	90	-	-
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7	-	75	- (- 3	2 00	3 00	-	30	-	90	2 00	35 00

⁹ Cobblestone gutters per square yard.

¹⁰ Clay.

¹¹ Gravel surfacing per cubic yard.

¹² Rock embankment.

¹³ Lump sum contract, \$5,000.

¹⁴ Including cement and steel rods.

¹⁵ Eight-inch iron pipe.

¹⁶ Stone masonry.

SHOWING CONTRACT PRICES ON

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					BITUM SURF!		Ex	CAVATI		Con-
TOWN OR	CITY	7.	Contract Number.	Contractor.	Oil (Square Yard).	Tar (Square Yard).	All Kinds (Cubic Yard).	Borrow (Cubic Yard).	Ledge (Cubic Yard).	Portland Cement crete Masonry.
Granby, .			1422	Charles E. Horne, .	-	-	\$0 49	\$ 0 65	\$2 00	\$10 00
Greenfield, .			1481	Richmond F. Hudson, .	-	- 1	60	60	2 25	114 00
Hadley, .			1462	Francis J. Mague, .	5\$0 06½	- 1	60	70	-	-
Hancock, .			1734	Crowe & Walsh,	508	5\$0 08	65	75	1 50	7 50
Hatfield, .			1456	Bush, Moller & Smith,	-	6083	36	58	2 10	8 00
Hatfield, .			1467	Lane Construction Cor-	506		- 1	- 3	-	-
Holliston, .			1457	poration. Bush, Moller & Smith,	5, 7153	484	58	70	2 16	8 00
Holyoke, .			1432	Herbert L. Thomas, .	906	1010	-	-	-)	-
Ipswich, .			1436	James E. Watkins, .	321/2	-	50	65	1 75	9 50
Lakeville, .			1446	Town of Lakeville, .	507	475	50	55	2 00	10 00
Lanesborough,			1427	Michael L. Camarco, .	16	-	41	63	2 00	9 50
Lee-Lenox, .			1450	Herbert L. Thomas, .	5082	1020	-	-	- (-
Marlborough,			1479	City of Marlborough, .	711	-	55	50	2 00	112 50
Mashpee, .			1444	Lane Quarry Company,	-	625	40	55	1 00	8 00
Montague, .			1438	Charles E. Horne, .	5059	- (-	-	-	-
North Andover,			1453	Rowe Contracting Com-	⁵ 15	-	45	80	3 00	10 50
North Adams-	Willia	ms-	1439	pany. Francis J. Mague, .	512	5061	15i 00	70	1014	10 00
town. Northborough,			-	Richmond F. Hudson, .	20	-	60	1 00	2 00	-
Northborough,			1468	Richmond F. Hudson, .	520	-	60	1 00	2 00	10 00
North Reading,			1458	Town of North Reading,	-		65	50	-	-
Palmer, .			1429	New England Contract- ing Company.	5051	- 1	-	-	- 1	-
Pepperell, .			1435	Hub Construction Com-	-	-	55	60	1 75	9 00
Pittsfield, .			1454	pany. William R. Pratt, .	508	511	50	1 00	1008	-
Plainville, .			1447	Thomas Whalen & Co.,	⁵ 13	-	70	60	1 00	8 00
Plymouth, .			1464	Carchia Bros. Construc-	533	- /	42	1 00	1 00	10 00
Rowley, .			1466	tion Company. Timothy A. Moynihan,	508	- 1	60	1 05	1 50	6 00
South Hadley,			1440	Lane Construction Cor-	⁵ 15	507	75	-	-	-
Salisbury, .			1475	poration. Town of Salisbury, .	514		50	50	2 00	\$198 00 10 00
Seekonk, .			1477	Town of Seekonk, .	506	- 4	50	55	- 3	9.00
Spencer, .			1472	R. L. Whipple & Co., .	-	-	1 25	50	-	14 50
						- 1		1		

¹ Including cement and steel rods.

² Sixteen-inch iron pipe.

⁸ Stone fencing.

⁴ Gravel per cubic yard.

⁵ Exclusive of asphaltic oil.

⁶ Exclusive of tar.

⁷ Per gallon.

⁸ Fifteen-inch clay pipe.

⁹ Exclusive of bituminous material.

¹⁰ Price per gallon of patching road surface.

STATE ROADS DURING 1911 — Continued,

		1						1	1 6	40		
Bro Sto	NE.	P	IPE CUI	VERTS (F	ER LINE	AL FOOT).	,	Foot	Unde	•	
			CLAY.			IRON.		1 Foc	neal	for		Each
Local (Ton).	Trap (Ton).	Twelve-inch.	Eighteen-inch.	Twenty-four- inch.	Twelve-inch.	Eighteen-inch.	Twenty-four- inch.	Fencing (Lineal Foot).	Side Drains (Lineal Foot)	Stone Filling for Under- drains(per Cubic Yard).	Bounds (Each)	Catch-basins (Each)
\$1 49	- 8		_	_	_	-		\$0 35	_	_	\$2 20	_
_	- 1	_	-	-	\$1 10	2 \$ 1 40	- 1	330		4 \$1 00	_	_
1 00	\$2 40	_	-	_) <u> </u>	-	-	-	-18	-	_	_
1 55	- /	- 3	-	-	2 25	3 00	2\$2 75	-	-	1 00	-	_
-	2 16	\$0 72	-	-1	2 40	-	-	36	-1	-	1 80	\$30 00
	-	- /		-	-	-	-	- /	-1	-	- /	-
-1	-	84	\$1 92	8\$1 32	-		-	36	-	88	1 80	-
-	2 20	-	-	-	-	- }	- 1	-	-	-	- }	-
-	-	57½	1 271	-	-	-	-	30	-	4721	1 50	-
1 50	-	111 50	-	-	2 50	122 00	¹³ 1 35	30	-	1 00	2 00	30 00
-	1 80	- 1	-	- 1	2 35	3 10	-	32	-	-	2 00	-
-	-	- 1	-	- /	-	- [-	- 1	-	-	- 1	-
-	-	-	- 3	-	2 00	-	-	30	-	41 10	2 00	-
-	- /	1160	- 1	-	-	-	-	30	-	141 00	2 00	30 00
-	2 44	- 1	- 1	-	-	- }	- 4	-	-	-	-	-
-	2 10	50	870	-	-	-1	- (30	-	480	2 00	30 00
-	2 38	- 1	-	-	-	-	-	-	-	¹⁶ 1 00	-	-
-	-	-	-	- 1	-	- 1	-	- 1	-	-	-	-
-	2 20	70	1760	-	- 1	-	-	40	-	/ - <u> </u>	2 00	30 00
1 70	1575	- 1	- 1	-	-	-	- 1	30	18\$0 06	-	2 00	-
-	(-	-	- 1	-	-	-	- 1	-	-	-	-	-
-	-	55	-	-	2 00	- 1	- 1	30	-	470	1 50	-
-	2 30	-	- 1	-	-	-	-	-	-	-	-	
-	2 20	75	1160	-	- 1	-	-	30	-	75	2 00	30 00
-	-	¹¹ 1 00	- 1	-	-	-	-	30	-	-	2 25	-
-	1 95	70	890	1760	-	-	-	30	-	-	1 75	30 00
, -	2 14	-	-	- 3	-	-	-		-	-	-	-
}1 70	-	75	1 50	-)	1 50	-	- 1	30	-	41 01	2 00	30 00
1 65	-	-	81 25	1770	- /	-	-	30	-	470	1 50	-
-,1	3 00	-	-)	-	-	-	50	-	-	- }	-

¹¹ Eight-inch clay pipe.

¹² Ten-inch iron pipe.

¹³ Eight-inch iron pipe. 14 Clay.

¹⁵ Old stone.

¹⁶ Culvert excavation.

¹⁷ Ten-inch clay pipe.

¹⁸ Resetting guard rail.

¹⁹ Pipe ends.

SHOWING CONTRACT PRICES ON

		١	BITUM SURFA		Ex	CAVATIO	on.	Con-
TOWN OR CITY.	Contract Number.	Contractor.	Oil (Square Yard).	Tar (Square Yard).	All Kinds (Cubic Yard).	Borrow (Cubic Yard).	Ledge (Cubic Yard).	Portland Cement crete Masonry.
Swansea,	1459	Pietro F. Giovannini, .	1\$0 07	-	\$0 50	\$0 65	\$ 2 0 0	\$10 00
Townsend,	1426	David H. Damon, .	-	-	75	80	² 75	12 00
Tyngsborough,	1424	Harvey W. Tarbell, .	23	- 1	45	55	2 00	9 00
Walpole,	1469	Hapgood Frost Com-	-	- 1	1 65	1 70	- 1	10 00
Webster,	1473	pany. Richmond F. Hudson, .	120	-	50	1 25	2 00	10 00
Whately,	1441	Lane Construction Cor-	113	-	1 00	-	-	-
Wilmington,	1423	poration. Town of Wilmington, .	20	-)	60	50	1 50	10 00

¹ Exclusive of asphaltic oil.

² Rock embankment.

³ Iron pipe fence.

STATE ROADS DURING 1911 — Concluded.

Bro Sto	KEN NE.	P	IPE CUL	VERTS (F	er Line	AL FOOT).	ot).	Foot).	Under-Yard).		<u>.</u>
			CLAY.			IRON.		l Foc	neal	or J		Jach
Local (Ton).	Trap (Ton).	Twelve-inch.	Eighteen-inch.	Twenty-four- inch.	Twelve-inch.	Eighteen-inch.	Twenty-four- inch.	Fencing (Lineal Foot).	Side Drains (Lineal Foot).	Stone Filling for U drains(per Cubic Y	Bounds (Each).	Catch-basins (Each).
\$1 40	- }	\$ 0 65	-	-	-	-	- 1	\$0 30	-	\$1 00	\$2 00	-
-	\$3 00	-	- '	-	_	-	-	35	3 \$1 00	1 00	415 75	-
-	1 95	60	5\$0 90	-	-	-	-1	30	-	- /	1 50	-
2 60	-	-	-	-	-	-	- 1	50	-	-	_	-
-	-	60	1 50	- 1	-	-	-	30	-	1 00	2 00	\$30 00
-)	2 25	-	- 1	-			-	-	- /-	-	-	_
1 60	-	75	-	-	-	-	-	30		-	1 50	-

⁴ Spruce piles.

⁵ Fifteen-inch clay pipe.

APPENDIX I.

STATEMENT OF CLAIMS AGAINST THE COMMISSION.

[As required by Section 5, Chapter 18 of the Revised Laws.]

NAME.	Residence.	Nature of Claim.
Bishop, Emeline,	Rowley,	Damages due to construction of State highway in Ipswich.
Coleman, Martin W., .	Richmond,	Damages due to construction of State highway in Richmond.
Cooper, Frederic P., .	Attleborough, .	Damages due to construction of State highway in Attleborough.
Donovan, John,	Ipswich,	Damages due to construction of State highway in Ipswich.
Flagg, Lucretia T.,	Northampton, .	Damages due to construction of State highway in Northampton.
Kinmond, John D., .	Boston,	Damages due to accident alleged to have oc- curred on State highway in Salisbury.
McLaughlin, Nancy M., .	Dover,	Damages due to construction of State highway in Dover.
Nourse, Joseph P., .	Marlborough, .	Damages due to construction of State highway in Marlborough.
Perley, Osborne,	Ipswich,	Damages due to construction of State highway in Ipswich.
Reed, William H.,	Gloucester,	Damages due to accident alleged to have occurred on State highway in Gloucester.
Seabury, Phœbe W., .	Dartmouth,	Damages due to construction of State highway in Dartmouth.
Taft, Kate P.,	Northampton, .	Damages due to construction of State highway in Northampton.
Talbot, Joseph,	Taunton,	Damages due to construction of State highway in Taunton.

APPENDIX J.

MAINTENANCE.

Table showing the Amounts expended for Repair and Maintenance, the Cost per Mile for Maintenance during 1911, the Cost per Mile per Year on Each Road, the Number of Miles under Maintenance and the Amounts to be assessed upon Municipalities for Maintenance under Chapter 47 of the Revised Laws.

	AMOUNT	AMOUNTS EXPENDED.				EXPENDE	EXPENDED PER MILE IN 1911.	IN 1911.		5	Amount
REVENUE APPROPRIATION.		MOTOR.	MOTOR VEHICLE FEES FUND.	S FUND.	Total ex-	From	From		Cost per Mile	Length under Mainte-	to be assessed
During Total.		To 1911.	During 1911.	Total.	pended.	Appro- priation.	Fees Fund.	10031.	per rear.	mance (Miles).	Cities and Towns.
\$265 19 \$1,748 28	00		\$50 40	\$50 40	\$1,798 68	\$78 69	\$74 95	\$93 64	\$71 38	3.37	\$168 50
673 19 4,221 40	0	\$3,112 68	60 20	3,172 88	7,394 28	125 12	11 19	136 31	81 23	5.38	269 00
211 26 5,140 16	9	1	1	1	5,140 16	61 95	1	61 95	19 60	3.41	170 50
2,403 42 3,971 13	က	1	1,504 45	1,504 45	5,475 58	1,183 95	741 10	1,925 05	316 68	2.03	101 50
468 78 1,713 43	က	1,969 33	464 16	2,433 49	4,146 92	117 48	116 33	233 81	106 20	3.99	199 50
2,184 77 4,077 46	9	19 00	209 88	228 88	4,306 34	723 43	69 20	792 43	176 97	3.03	151 00
167 42 1,198 79	6	1,530 74	1	1,530 74	2,729 53	172 59	1	172 59	133 20	.97	48 50
423 86 12,189 16	9	3,279 77	42 57	3,322 34	15,511 50	101 16	10 16	111 32	245 52	4.19	209 50
2,726 83 10,098 90	0	19 25	1,525 85	1,545 10	11,644 00	673 29	376 75	1,050 04	196 59	4.05	202 50
120 38 3,226 70	0	220 59	38 52	259 11	3,485 81	74 77	23 92	69 86	153 29	1.61	80 20
307 02 941 57	2	ı	487 26	487 26	1,428 83	95 94	152 27	248 21	73 27	3.20	160 00

Table showing the Amounts expended for Repairs, Maintenance, etc. — Continued.

Į,
AMOUNTS EXPENDED
REVENUE APPROPRIATION. MOTOR VEHICLE FEES FUND
During Total. To 1911.
\$2,743 00 \$10,258 09
486 23 5,029 87 \$1,603 15
852 37 15,638 66 10,567
2,138 90 6,272 49
631 83 9,720 09 120 02
1,086 37 3,819 45 9,086 90
395 24 1,402 80 1
- 1,120 50 -
174 10 1,002 45 50 60
125 69 335 81 -
- 217 71 217 71
3,045 89 17,901 04 14,103 42
70 30 431 17 316
410 07 2,229 86 25 21
427 64 4,315 84 5,271 01
312 26 1,183 15
447 02 1,922 03 _

53 00	391 00	173 50	198 50	159 50	194 50	214 00	190 00	161 50	38 50	236 50	358 50	233 50	48 00	209 50	331 00	194 50	249 50	54 50	114 00	106 50	179 50	128 00
1.06	7.83	3.47	3.97	3.19	3.89	4.28	3.80	3.23	77.	4.83	7.17	4.67	96.	4.19	6.62	3.89	4.99	1.09	2.28	2.13	3.59	2.56
94 70	85 29	66 03	61 23	102 22	223 79	136 14	127 29	258 83	478 42	104 13	76 51	113 00	291 42	202 69	144 01	380 00	48 91	320 99	129 43	99 40	245 29	221 66
233 63	121 55	384 84	378 03	170 68	417 13	195 99	227 37	287 31	344 26	56 41	118 79	452 78	3,920 02	431 46	116 06	611 35	98 09	102 67	528 96	133 44	262 25	335 43
26 30	11 83	223 23	254 26	85 79	144 42	65 00	50 94	160 61	1	1 06	13 37	320 51	2,424 51	15 64	28 94	16 19	7 02	0 20	460 62	34 90	23 97	1
207 33	109 72	161 61	123 77	84 89	272 71	130 99	176 43	126 70	344 26	55 35	105 42	132 27	1,495 51	415 82	87 12	595 16	53 84	93 08	68 34	98 54	238 28	335 43
1 69 966	7,887 09	4,552 35	9,564 00	7,904 90	8,993 87	11,520 45	5,524 99	6,354 65	4,879 84	2,583 54	3,422 93	5,106 33	4,606 74	5,886 54	4,595 30	15,787 95	993 97	1,503 08	4,691 89	2,278 94	11,924 20	6,871 43
27 88	92 55	824 75	6,831 90	4,268 89	1,159 04	4,639 69	2,331 34	2,601 59	1	48 93	95 91	1,496 97	2,336 53	65 52	191 59	1,002 77	35 00	10 46	1,410 86	74 34	2,625 71	-
27 88	92 55	774 61	1,009 41	273 66	561 80	278 21	193 59	518 77	1	5 12	95 91	1,496 77	2,327 53	65 52	191 59	63 00	35 00	10 46	1,050 21	74 34	86 03	1
-	1	50 14	5,822 49	3,995 23	597 24	4,361 48	2,137 75	2,082 82	1	43 81	1	20	00 6	1	ı	939 77	1	1	360 65	1	2,539 63	1
968 81	7,794 54	3,727 60	2,732 10	3,636 01	7,834 83	6,880 76	3,193 65	3,753 06	4,879 84	2,534 61	3,327 02	3,609 36	2,270 21	5,821 02	4,403 71	14,785 18	958 97	1,492 62	3,281 03	2,204 60	9,298 49	6,871 43
219 77	858 03	560 81	491 38	270 83	1,060 86	260 66	670 43	409 26	265 08	267 34	755 88	617 71	1,435 69	1,742 30	576 76	2,315 17	268 70	101 46	155 82	209 90	855 43	858 71
749 04	6,936 51	3,166 79	2,240 72	3,365 18	6,773 97	6,320 10	2,523 22	3,343 80	4,614 76	2,267 27	2,571 14	2,991 65	834 52	4,078 72	3,826 95	12,470 01	690 27	1,391 16	3,125 21	1,994 70	8,443 06	6,012 72
-	•	•	٠	٠	•	•	•	•		٠	٠	•			•	•	•	•	•	•	•	
	•			•			•	•							٠	•	•	٠	٠		٠	
Braintree,	Brewster, .	Bridgewater,	Brimfield,	Brockton,	Brookfield,	Buckland,	Burlington,	Canton, .	Charlemont,	Charlton, .	Chatham,	Chelmsford,	Chelsea, .	Cheshire, .	Chester, .	Chicopee,	Chilmark,	Clarksburg,	Cohasset, .	Colrain, .	Concord, .	Dalton, .

Table showing the Amounts expended for Repairs, Maintenance, etc. — Continued.

										-			
			AMOUNTS EXPENDED	EXPENDED.				EXPENDE	EXPENDED PER MILE IN 1911	3 IN 1911.		Towarth	Amount
TOWN OR	REVENT	REVENUE APPROPRIATION.	IATION.	MOTOR V	MOTOR VEHICLES FEES FUND	ES FUND.	Total ex-	From	From	Ē	Cost per Mile	Lengtn under Mainte-	to be assessed on
	To 1911.	During 1911.	Total.	To 1911.	During 1911.	Total.	pended.	Appro- priation.	Vehicle Fees Fund.	Total.	per Year.	nance (Miles).	Cities and Towns.
Dartmouth,	\$4,921 71	\$503 94	\$5,425 65	\$1,941 18	\$8,833 55	\$10,774 73	\$16,200 38	\$111 00	\$1,945 71	\$2,056 71	\$129 09	4.54	\$227 00
Dedham,	3 84	181	5 65	1	1 93	1 93	7 58	60 33	64 33	124 66	80 71	.03	1 50
Deerfield,	8,398 14	1,119 58	9,517 72	1,817 64	318 11	2,135 75	11,653 47	153 58	43 63	197 21	189 82	7.29	364 50
Dennis,	6,080 28	181 71	6,861 99	1	579 06	90 629	7,441 05	104 23	77 20	181 43	66 22	7.50	375 00
Dighton,	963 94	1,024 62	1,988 56	1,781 03	1,303 29	3,084 32	5,072 88	264 76	336 76	601 52	108 61	3.87	193 50
Douglas,	1,206 36	1199 11	1,405 47	2,145 05	3,412 63	5,557 68	6,963 15	93 48	1,602 17	1,695 65	91 68	2.13	106 50
Dover,	778 59	541 84	1,320 43	80	96	1 76	1,322 19	248 55	44	248 99	140 47	2.18	109 00
Dracut,	617 84	56 58	674 42	ı	55	55	674 97	30 91	30	31 21	80 00	1.83	56 58
Dudley,	2,329 70	363 40	2,693 10	1	1	1	2,693 10	158 69	ı	158 69	197 15	2.29	114 50
Duxbury,	5,269 20	2,098 23	7,367 43	9 50	626 39	635 89	8,003 32	406 63	121 39	528 02	163 39	5.16	258 00
East Longmeadow, .	313 89	356 11	00 029	1	1	1	00 029	• 197 83	1	197 83	86 01	1.80	00 06
Eastham,	3,072 89	414 18	3,487 07	2 16	10 02	12 18	3,499 25	64 11	1 55	99 29	175 76	6.46	323 00
Easthampton,	2,774 54	528 36	3,302 90	ı	328 75	328 75	3,631 65	218 33	135 84	354 17	103 38	2.42	121 00
Easton,	644 48	61 91	706 39	5,806 50	72 50	5,879 00	6,585 39	77 38	89 08	168 01	80 55	.80	40 00
Edgartown,	3,625 66	126 45	3,752 11	249 74	230 02	479 76	4,231 87	52 25	95 05	147 30	148 95	2.42	121 00
Erving,	2,773 42	838 77	3,612 19	62 28	118 31	180 59	3,792 78	158 26	22 32	180 58	126 96	5.30	265 00
Essex,	3,290 52	68 27	3,358 79	262 73	360 29	623 02	3,981 81	195 06	1,029 40	1,224 46	1,162 21	.35	17 50

72 50	778 00	206 00	175 50	160 50	129 00	193 50	168 00	199 00	54 69	102 50	188 00	170 50	268 00	70 50	86 00	234 50	133 00	161 50	92 50	41 00	115 50	324 00
1.45	15.56	4.12	3.51	3.21	2.58	3.87	3.36	3.98	2.46	2.05	3.76	3.41	5.36	1.41	1.72	4.69	2.66	3.23	1.85	.83	2.31	6.48
60 10	113 17	158 32	569 34	116 07	107 13	73 01	128 38	446 43	197 32	212 42	284 91	271 17	76 57	20,69	133 61	27 00	206 44	460 79	148 08	136 42	60 31	99 94
1,838 60	512 91	832 98	146 23	1,615 18	132 30	111 61	294 08	522 11	25 15	1,614 60	52 48	237 33	74 91	245 93	196 19	719 40	298 18	5,135 53	130 97	256 54	98 09	207 82
1,753 15	264 99	618 68	21 70	1,284 35	1	44 85	81 84	190 49	2 92	1,313 02	1	35 96	10 90	85 64	29 29	455 69	45	1,985 38	12 43	ı	1	55 08
85 45	247 92	214 30	124 53	330 83	132 30	92 99	212 24	331 62	22 23	301 58	52 48	201 37	64 01	160 29	166 90	263 71	297 73	3,150 15	118 54	256 54	96 09	152 74
3,951 39	14,409 98	12,058 82	1,460 81	5,863 07	771 76	2,252 18	6,242 48	25,584 70	6,303 74	10,598 88	5,995 75	14,260 55	2,128 20	1,008 41	3,768 07	18,279 21	4,817 27	26,420 23	1,092 15	1,310 59	791 26	5,742 75
2,542 07	4,137 71	4,826 99	76 17	4,123 16	40	173 57	885 14	6,669 51	7 19	5,849 14	112 37	1,651 34	58 43	145 75	1,794 67	6,828 74	994 09	6,412 79	23 00	,	1	356 93
2,542107	4,123 39	2,548 97	76 17	4,122 76	ı	173 57	274 97	758 14	7 19	2,691 69	1	122 64	58 43	120 75	50 38	2,137 20	1 20	6,412 79	23 00	1	1	356 93
ı	14 32	2,278 02	ı	40	40	1	610 17	5,911 37	1	3,157 45	112 37	1,528 70	r.i	25 00	1,744 29	4,691 54	992 89	1	ı	1	1	1
1,409132	10,272 27	7,231 83	1,384 64	1,739 91	771 36	2,078 61	5,357 34	18,915 19	6,296 55	4,749 74	5,883 38	12,609 21	2,069 77	862 66	1,973 40	1,450 47	3,823 18	20,033 81	1,069 15	1,310 59	791 26	5,385 82
123 907	3,857 63	882 91	437 10	1,061 97	341 34	258 37	713 15	1,319 87	24 69	618 24	197 34	99 989	343 12	226 02	287 07	1,236 79	791 96	10,174 99	219 31	210 37	139 45	62 686
1,285 42	6,414 64	6,348 92	947 54	627 94	430 02	1,820 24	4,644 19	17,595 32	6,241 86	4,131 50	5,686 04	11,922 55	1,726 65	636 64	1,686 33	10,213 68	3,031 22	9,858 82	849 84	1,100 22	651 81	4,396 03
•	•		٠	٠	•	•	•	•	•	•	٠	٠	•	٠	٠	٠	•	•	٠	•	٠	•
												ton,										
Fairhaven,	Falmouth,	Fitchburg,	Foxborough,	Framingham,	Franklin, .	Freetown,	Gardner, .	Gloucester,	Goshen, .	Grafton, .	Granby, .	Great Barrington,	Greenfield,	Groton, .	Groveland,	Hadley, .	Hamilton,	Hancock, .	Hanover, .	Hardwick,	Harvard, .	Harwich, .

Table showing the Amounts expended for Repairs, Maintenance, etc. - Continued.

Amount	to be assessed on	Cities and Towns.	\$132 50	264 50	132 39	51 00	87 50	236 50	166 00	208 00	27 00	113 00	221 00	51 00	275 50	62 50	83 72	13 50	302 50
1	under Mainte-	nance (Miles).	2.65	5.29	2.66	1.02	1.75	4.73	3.32	4.16	1.14	2.26	4.43	1.02	5.51	1.25	1.72	.27	6.05
	Cost per Mile	per rear.	\$285 56	266 04	148 07	20 26	57 21	189 53	94 46	223 00	116 99	355 25	131 63	163 76	61 65	66 98	398 67	80 36	340 70
s in 1911.	E	l otal.	\$981 97	207 90	321 05	206 45	93 57	259 99	568 55	642 88	290 67	655 03	114 96	846 59	100 33	171 18	48 67	298 29	479 74
EXPENDED PER MILE IN 1911	From	Venicle Fees Fund.	\$310 53	105 94	271 28	1	16 57	36 53	476 09	328 15	36 97	360 18	69	618 91	2 68	35 16	ı	25 85	131 20
Expende	From	Appro- priation.	\$671 44	401 96	49 77	206 45	00 44	223 46	92 46	314 73	253 70	294 85	114 27	227 68	92 65	136 02	48 67	272 44	348 54
	Total ex-	pended.	\$3,239 18	12,820 41	13,155 72	861 02	1,321 33	12,932 57	2,253 65	4,678 63	672 80	9,766 48	2,253 13	1,509 06	2,114 44	1,040 86	83 72	3,252 80	22,370 44
	S FUND.	Total.	\$822 90	2,734 69	7,167 96	ı	29 00	1,856 25	1,581 07	3,349 55	42 25	2,046 92	1,115 86	631 29	42 34	43 95	ŀ	151 81	4,476 95
	MOTOR VEHICLE FEES FUND	During 1911.	\$822 90	560 45	721 62	ı	29 00	172 80	1,580 62	1,365 10	42 15	814 01	3 03	631 29	42 34	43 95	ı	86 9	793 75
EXPENDED.	MOTOR 1	To 1911.	ı	\$2,174 24	6,446 34	ı	1	1,683 45	45	1,984 45	10	1,232 91	1,112 83	1	ı	ı	ı	144 83	3,683 20
AMOUNTS EXPENDED	IATION.	Total.	\$2,416 28	10,085 72	5,987 76	861 02	1,292 33	11,076 32	672 58	1,329 08	630 55	7,719 56	1,137 27	77 778	2,072 10	16 966	83 72	3,100 99	17,893 49
	REVENUE APPROPRIATION	During 1911.	\$1,779 33	2,126 38	132 39	210 58	134 75	1,056 98	306 908	1,309 26	289 21	999	202 07	232 23	510 49	170 03	83 72	73 56	2,108 64
	REVEN	To 1911.	\$636 95	7,959 34	5,855 37	650 44	1,157 58	10,019 34	365 62	19 82	341 34	7,053 21	632 20	645 54	1,561 61	826 88	1	3,027 43	15,784 85
	دم		•	·	•		٠	٠	٠	٠	٠	•	•	٠	•	٠		•	
	TOWN OR		Hatfield,	Haverhill, .	Hingham,	Hinsdale,	Holbrook, .	Holden,	Holliston,	Holyoke,	Hudson,	Huntington, .	Ipswich,	Kingston,	Lakeville, .	Lancaster, .	Lanesborough,	Lawrence, .	Lee,

243 50	383 00	109 00	214 50	103 00	148 50	115 00	206 00	45 00	60 50	278 50	316 50	414 00	160 50	31 62	18 45	111 50	184 50	622 50	177 50	149 00	43 50	80 20
4.87	99.2	2.18	4.29	2.06	2.97	2.30	4.12	06.	1.21	5.57	6.33	8.28	3.21	98.	.40	2.23	3.69	12.45	3.55	2.98	.87	1.61
395 65	573 35	80 33	212 82	231 62	133 09	489 24	124 95	1,442 71	70 15	172 35	230 15	132 89	115 93	215 73	159 95	107 12	149 29	62 54	79 32	60 66	383 47	120 93
862 14	1,311 18	166 17	88 962	176 75	242 85	670 18	328 61	1,176 70	121 74	524 85	316 65	450 68	425 73	814 41	22 82	719 83	346 54	02 899	1,466 85	1,157 76	230 44	491 86
198 44	294 26	19 31	689 28	7 28	65 12	384 74	97 64	900 43	13 39	389 68	56 56	140 37	295 03	29 222	11 73	425 79	137 41	601 37	1,390 18	991 62	112 72	22 28
663 70	1,016 92	146 86	107 60	169 47	177 73	285 44	230 97	276 27	108 35	135 17	260 09	310 31	130 70	36 76	46 12	294 04	209 13	67 33	29 92	166 14	117 72	469 58
41,378 88	37,162 05	1,662 45	23,314 76	10,363 20	3,396 63	16,609 51	7,962 41	13,734 58	648 92	14,436 75	17,210 37	8,015 72	5,716 07	1,967 51	329 39	3,524 93	8,525 03	16,286 68	5,923 44	6,498 37	3,729 50	2,275 57
14,874 22	7,852 58	42 10	10,932 43	3,261 72	619 03	1,100 56	4,119 06	5,698 64	16 21	3,422 17	4,667 26	1,222 42	1,222 55	1,333 26	4 69	960 48	3,391 06	9,696 19	4,935 17	4,201 37	20 86	35 88
966 40	2,254 03	42 10	2,957 02	14 99	193 40	884 90	402 29	810 39	16 21	2,170 51	358 03	1,162 25	947 06	82 899	4 69	949 52	207 06	7,487 07	4,935 17	2,955 04	98 07	35 88
13,907 82	5,598 55	1	7,975 41	3,246 73	425 63	215 66	3,716 77	4,888 25	1	1,251 66	4,309 23	60 17	275 49	664 48	1	10 96	2,884 00	2,209 12	1	1,246 33	1	'
26,504 66	29,309 47	1,620 35	12,382 33	7,101 48	2,777 60	15,508 95	3,843 35	8,035 94	632 71	11,014 58	12,543 11	6,793 30	4,493 52	634 25	324 70	2,564 45	5,133 97	6,590 49	988 27	2,297 00	3,631 43	2,239 69
3,232 24	19 682,7	320 15	461 60	349 11	527 87	656 51	951 58	248 64	131 10	752 91	1,646 37	2,569 38	419 56	31 62	18 45	655 72	771 70	838 30	272 17	495 11	102 42	756 02
23,272 42	21,519 86	1,300 20	11,920 73	6,752 37	2,249 73	14,852 44	2,891 77	7,787 30	501 61	10,261 67	10,896 74	4,223 92	4,073 96	602 63	306 25	1,908 73	4,362 27	5,752 19	716 10	1,801 89	3,529 01	1,483 67
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Leicester,	Lenox, .	Leominster,	Lexington,	Lincoln, .	Littleton, .	Lowell, .	Lunenburg,	Lynn, .	Mansfield,	Marion, .	Marlborough,	Marshfield,	Mattapoisett,	Medford, .	Melrose,	Merrimac,	Methuen, .	Middleborough,	Milford, .	Millbury, .	Milton, .	Monson, .

Table showing Amounts expended for Repairs, Maintenance, etc. — Continued.

			AMOUNTS	EXPENDED.				EXPENDE	EXPENDED PER MILE IN 1911	E IN 1911.		,	Amount
TOWN OR	REVEN	REVENUE APPROPRIATION	RIATION.	MOTOR	MOTOR VEHICLE FEES	es FUND.	Total ex-	From	From		Cost per Mile	Length under Mainte-	to be
	To 1911.	During 1911.	Total.	To 1911.	During 1911.	Total.	pended.	Appro- priation.	Vehicle Fees Fund.	Total.	per Year.	(Miles).	Cities and Towns.
Montague,	\$2,018 27	\$2,519 22	\$4,537 49	\$9 28	\$4,719 92	\$4,729 20	\$9,266 69	\$439 65	\$823 72	\$1,263 37	\$127 10	5.73	\$286 50
Nantucket,	15,440 46	207 91	15,648 37	791 83	1,008 25	1,800 08	17,448 45	32 08	155 59	187 67	181 68	6.48	207 91
Natick,	2,382 13	380 88	2,763 01	4,272 06	3,535 27	7,807 33	10,570 34	119 02	1,104 77	1,223 79	104 86	3.20	160 00
Needham,	735 72	233 23	968 95	456 11	17.1	457 82	1,426 77	114 89	84	115 73	66 27	2.03	101 50
New Braintree, .	237 80	62 71	300 51	t	t	ı	300 51	156 77	t	156 77	75 51	.40	20 00
Newbury,	7,685 18	885 76	8,570 94	4,454 87	371 44	4,826 31	13,397 25	209 40	87 81	297 21	233 03	4.23	211 50
Newburyport,	7,436 62	169 01	7,605 63	2,077 06	9 24	2,086 30	9,691 93	96 29	5 28	101 87	328 25	1.75	87 50
Newton,	148 99	63 33	212 32	1,510 54	1 21	1,511 75	1,724 07	61 48	1 18	62 66	20 43	1.03	51 50
Norfolk,	2,148 90	559 74	2,703 64	3,148 36	330 37	3,478 73	6,187 37	386 03	227 84	613 87	90 02	1.45	72 50
North Adams,	16,769 51	4,822 11	21,591 62	1,837 73	6,640 27	8,478 00	30,069 62	1,202 52	1,655 91	2,858 43	452 37	4.01	200 50
Northampton,	5,360 13	222 86	5,582 99	1,116 96	40 00	1,156 96	6,739 95	109 78	19 70	129 48	128 31	2.03	101 50
North Andover, .	1,964 87	667 95	2,632 82	40	447 61	448 01	3,080 83	197 62	132 43	330 05	173 71	3.38	169 00
North Attleborough,	4,481 52	460 13	4,941 65	13,812 58	589 92	14,402 50	19,344 15	127 81	163 87	291 68	92 80	3.60	180 00
Northborough, .	3,695 56	856 14	4,551 70	2,026 45	504 82	2,531 27	7,082 97	215 64	127 16	342 80	109 97	3.97	198 50
North Brookfield, .	510 90	313 24	824 14	ι	34 25	34 25	858 39	139 22	15 22	154 44	94 30	2.25	112 50
Northfield,	1,139 22	216 49	1,355 71	t	ı	t	1,355 71	186 63	1	186 63	128 63	1.16	28 00
North Reading, .	2,464 04	305 04	2,769 08	4,117 85	53 05	4,170 90	86 686'9	120 09	20 89	140 98	111 61	2.54	127 00

234 50	102 50	118 50	240 00	235 00	109 50	496 00	180 00	17 50	41 50	139 00	350 00	54 80	365 50	111 50	55 00	133 50	95 00	64 90	187 00	301 50	62 50	201 00
4.69	2.02	2.37	4.80	4.70	2.19	9.92	3.60	35	.83	2.78	7.00	2.30	7.31	2.23	1.10	2.67	1.90	1.48	3.74	6.03	1.25	4.02
225 55	316 42	212 36	243 13	74 70	205 96	228 14	324 65	273 33	126 19	293 21	518 81	147 74	117 14	63 47	174 91	251 07	69 96	46 80	236 11	71 62	386 65	107 46
161 05	277 22	11 761	224 57	189 02	544 30	116 56	392 41	252 69	187 01	1,647 00	1,651 50	155 59	652 81	295 24	1,717 81	228 80	298 61	68 61	137 05	846 57	897 73	264 83
1 33	151 91	103 20	35 46	29 89	41 36	68 01	158 83	51 43	t	87 678	439 62	131 76	493 03	172 37	993 55	132 06	221 72	24 76	1 47	717 22	391 37	116 60
159 72	125 31	93 91	189 11	129 13	502 94	48 55	233 58	201 26	187 01	767 22	1,211 88	23 83	159 78	122 87	724 26	96 74	76 89	43 85	135 58	129 35	506 36	148 23
2,209 85	11,827 98	8,351 76	13,902 47	2,890 03	1,552 87	24,757 54	27,204 52	564 39	155 22	8,451 00	33,895 34	8,234 18	11,749 86	1,947 36	2,745 78	8,309 56	4,991 84	651 54	10,721 16	9,235 96	16,218 91	4,252 63
6 20	2,689 68	494 35	18 269	284 44	90 57	12,624 10	10,108 66	18 00	1	2,460 70	3,332 07	6,356 40	3,604 06	266 98	1,092 90	3,516 53	3,785 13	36 65	3,007 35	5,828 81	10,276 09	468 75
6 20	311 42	244 59	170 20	281 49	90 57	6,746 08	571 78	18 00	t	2,445 79	3,077 33	303 05	3,604 06	384 38	1,092 90	352 60	421 26	36 65	5 49	4,324 82	489 21	468 75
ı	2,378 26	249 76	527 67	2 95	1	5,878 02	9,536 88	1	1	14 91	254 74	6,053 35	1	182 60	1	3,163 93	3,363 87	ı	3,001 86	1,503 99	9,786 88	1
2,203 65	9,138 30	7,857 41	13,204 60	2,605 59	1,462 30	12,133 44	17,095 86	546 39	155 22	5,990 30	30,563 27	1,877 78	8,145 80	1,380 38	1,652 88	4,793 03	1,206 71	614 89	7,713 81	3,407 15	5,942 82	3,783 88
749 10	256 88	222 .57	907 74	606 92	1,101 45	4,816 14	840 89	70 44	155 22	2,132 88	8,483 15	54 80	1,168 02	274 01	69 962	258 30	146 09	64 90	208 02	66 622	632 95	595 86
1,454 55	8,881 42	7,634 84	12,296 86	1,998 67	360 85	7,317 30	16,254 97	475 95	t	3,857 42	22,080 12	1,822 98	87 776,9	1,106 37	856 19	4,534 73	1,060 62	549 99	7,205 74	2,627 16	5,309 87	3,188 02
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Norton, .	Norwood,	Oak Bluffs,	Orange, .	Orleans, .	Oxford, .	Palmer, .	Paxton, .	Pembroke,	Pepperell,	Phillipston,	Pittsfield,	Plainville,	Plymouth,	Princeton,	Provincetown,	Quincy,	Randolph,	Raynham,	Reading, .	Rehoboth,	Revere, .	Richmond,

Table showing the Amounts expended for Repairs, Maintenance, etc. — Continued.

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			AMOUNTS EXPENDED	EXPENDED.				EXPENDE	EXPENDED PER MILE IN 1911.	IN 1911.		T and I	Amount
TOWN OR	REVEN	REVENUE APPROPRIATION.	UATION.	MOTOR V	MOTOR VEHICLE FEES FUND	S FUND.	Total ex-	From	From	E	Cost per Mile	under Mainte-	to be assessed on
	To 1911.	During 1911.	Total.	To 1911.	During 1911.	Total.	pended.	Appro- priation.	Fees Fund.	Total.	per rear.	nance (Miles).	Cities and Towns.
Rochester,	\$2,537 41	\$297 81	\$2,835 22	1	\$315 88	\$315 88	\$3,151 10	\$482 67	\$511 96	\$994 63	90 99\$	6.17	\$297 81
Rockland,	1,041 99	259 73	1,301 72	1	31 62	31 62	1,333 34	110 53	13 45	123 98	82 02	2.35	117 50
Rockport,	410 14	121 48	531 62	\$1,023 98	586 34	1,610 32	2,141 94	75 93	366 46	442 39	85 75	1.60	80 00
Rowley,	1,718 07	1,007 51	2,725 58	64 95	285 27	350 22	3,075 80	347 42	98 36	445 78	301 84	2.90	. 145 00
Russell,	18,746 75	2,973 77	21,720 52	11,049 41	2,373 78	13,423 19	35,143 71	446 51	356 42	802 93	233 10	99.9	333 00
Rutland,	733 08	30 68	763 76	1	'	1	763 76	26 45	1	26 45	109 74	1.16	30 68
Salem,	602 87	165 32	768 19	1,872 03	1,809 43	3,681 46	3,449 65	118 08	1,292 45	1,410 53	195 97	1.40	20 00
Salisbury,	1,607 91	164 45	1,772 36	1,165 11	9 34	1,174 45	2,946 81	42 82	2 43	45 25	152 92	3.84	164 45
Sandwich,	5,183 30	531 09	5,714 39	1	16 75	16 75	5,731 14	123 22	3 88	127 10	161 76	4.31	215 50
Saugus,	5,616 18	714 25	6,330 43	20,835 33	1,967 03	22,802 36	29,132 79	399 02	1,098 89	1,497 91	327 15	1.79	89 20
Scituate,	6,273 41	610 19	09 888'9	100 00	553 94	653 94	7,537 54	113 62	103 16	216 78	180 62	5.37	268 50
Seekonk,	2,846 04	366 46	3,212 50	346 42	1,960 99	2,307 41	5,519 91	86 02	460 32	546 34	133 19	4.26	213 00
Sharon,	108 57	84 40	192 97	1	24 00	24 00	216 97	131 87	37 50	169 37	97 95	.64	32 00
Shelburne,	6,195 32	374 39	6,569 71	413 50	5 52	419 02	6,988 73	173 32	2 56	175 88	199 94	2.16	108 00
Shrewsbury,	15,649 38	1,662 15	17,311 53	14,688 25	5,855 33	20,543 58	37,855 11	342 00	1,204 80	1,546 80	292 08	4.86	243 00
Somerset,	6,571 90	1,547 02	8,118 92	10,589 60	5,561 63	16,151 23	24,270 15	193 38	695 20	888 58	108 31	8.00	400 00
Somerville,	1,052 17	143 64	1,195 81	998 22	1,001 02	1,999 24	3,195.05	123 82	862 95	86 77	348_63	1.16	58 00

35 50	184 50	00 89	287 50	151 50	184 50	165 00	29 00	165 00	118 00	255 50	78 00	114 00	74 50	264 00	233 50	284 50	328 50	96 20	302 00	158 00	303 20	147 00
17.	3.69	1.36	5.75	3.03	3.69	3.30	1.58	3.30	2.36	5.11	1.56	2.28	1.49	5.28	4.67	5.69	6.57	1.93	6.04	3.16	6.07	2.94
119_57	144 54	135 64	274 33	359 75	115 87	379 10	365 43	179 68	91 35	322 52	82 40	143 52	260 21	75 46	113 76	98 23	47 62	72 67	73 82	136 93	152 13	66 53
114 71	859 06	149 16	2,375 63	1,300 17	167 28	413 60	1,592 34	216 17	150 69	433 43	82 69	811 39	1,461 18	115 05	105 19	210 46	63 74	124 81	130 26	216 66	411 57	1,764 05
1	. 633 77	28 96	2,142 95	627 15	15 25	62 86	1,242 41	146 61	35 84	1	ı	672 46	1,346 36	3 13	23 75	64 77	12 93	17 22	4 40	50 54	227 13	1,670 67
114 71	225 29	120 20	232 68	673 02	152 03	350 74	349 93	92 69	114 85	433 43	82 69	138 93	114 82	111 92	81 44	145 69	50 81	112 59	125 86	166 12	184 44	93 38
489 04	4,553 81	1,459 52	27,352 16	11,051 52	3,103 57	5,344 10	10,406 84	5,447 88	1,470 08	23,132 39	874 31	5,620 80	8,249 21	1,807 80	5,461 92	3,468 64	6,588 08	2,323 77	4,029 38	4,814 12	8,565 36	6,653 01
1	2,381 38	43 39	12,521 68	3,187 14	26 30	817 67	3,690 15	1,308 03	99 82	6,180 49	1	2,474 90	3,492 55	51 82	163 16	368 54	4,204 84	33 23	26 59	159 71	1,378 71	4,911 77
1	2,338 63	39 39	12,321 94	1,900 27	56 30	207 42	1,963 01	483 80	84 59	1	1	1,533 21	2,006 07	16 55	110 93	368 54	84 94	33 23	26 59	159 71	1,378 71	4,911 77
1	42 75	4 00	199 74	1,286 87	1	610 25	1,727 14	824 23	15 23	6,180 49	1	941 69	1,486 48	35 27	52 23	1	4,119 90	1	1	1	1	1
489 04	2,172 43	1,416 13	14,830 48	7,864 38	3,047 27	4,526 43	6,716 69	4,139 85	1,370 26	16,951 90	874 31	3,145 90	4,756 66	1,755 98	5,298 76	3,100 10	2,383 24	2,290 54	4,002 79	4,654 41	7,186 65	1,741 24
81 45	831 32	163 47	1,337 92	2,039 25	260 98	1,157 46	552 89	229 56	271 06	2,214 84	129 00	2,316 78	171 09	590 94	380 32	829 02	333 85	217 30	760 18	524 93	1,119 55	274 56
407 59	1,341 11	1,252 66	13,492 56	5,825 13	2,486 29	3,368 97	6,163 80	3,910 29	1,099 20	14,737 06	745 31	2,829 12	4,585 57	1,165 04	4,918 44	2,271 08	2,049 39	2,073 24	3,242 61	4,129 48	01 290,9	1,466 68
Southampton,	Southborough, .	Southbridge,	South Hadley,	Spencer,	Sterling,	Stockbridge,	Stoneham,	Stoughton,	Sturbridge,	Sudbury,	Sunderland,	Sutton,	Swampscott,	Swansea,	Taunton,	Templeton,	Tewksbury,	Tisbury,	Townsend,	Truro,	Tyngsborough, .	Uxbridge,

Table showing the Amounts expended for Repairs, Maintenance, etc. — Concluded.

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			AMOUNTS	AMOUNTS EXPENDED.				EXPENDE	EXPENDED PER MILE IN 1911	E IN 1911.		Longth	Amount
TOWN OR	REVEN	REVENUE APPROPRIATION.	UATION.	MOTOR V	MOTOR VEHICLE FEES FUND	es fund.	Total ex-	From	From	F-04-01	Cost per Mile	under Mainte-	to be assessed on
	To 1911.	During 1911.	Total.	To 1911.	During 1911.	Total.	pengeg.	Appro- priation.	Fees. Fund.	TOGG!	per rear.	(Miles).	Cities and Towns.
Wales,	\$507 03	\$57 15	\$564 18	ı	1	1	\$564 18	\$54 95	•	\$54 95	\$58 10	1.04	\$52 00
Walpole,	11,305 98	1,276 49	12,582 47	\$8,585 18	\$1,146 63	\$9,731 81	22,314 28	281 16	\$252 56	533 72	201 87	4.54	227 00
Ware,	2,658 53	785 65	3,444 18	1	1	1	3,444 18	187 95	1	187 95	118 68	4.18	209 00
Wareham,	8,829 06	1,297 92	10,126 98	3,161 73	1,516 69	4,678 42	14,805 40	154 14	180 13	334 27	195 27	8.42	421 00
Warren,	9,638 64	833 29	10,471 93	4,193 42	1,459 85	5,653 27	16,125 20	203 24	356 06	559 30	238 21	4.10	205 00
Watertown,	3,885 19	136 99	4,022 18	5,552 60	1 45	5,554 05	9,576 23	161 16	17.1	162 87	312 04	38.	42 50
Wayland,	10,896 45	842 38	11,738 83	3,723 03	1,381 55	5,104 58	16,843 41	326 50	535 48	86 198	406 01	2.58	129 00
Webster,	272 34	146 38	418 72	50 43	1	50 43	469 15	225 20	1	225 20	186 09	.65	32 50
Wellesley, .	2,648 16	270 87	2,919 03	1,519 76	1,207 46	2,727 22	5,646 25	229 55	1,023 27	1,252 82	241 66	1.18	29 00
Wellfleet,	3,485 99	824 09	4,310 08	5 20	1	5 20	4,315 28	177 22	1	177 22	131 60	4.65	232 50
Wenham,	5,724 27	568 46	6,292 73	2,919 36	116 98	3,036 34	9,329 07	322 99	66 46	389 45	334 00	1.76	88 00
Westborough, .	1,241 71	333 20	1,574 91	1	1	ı	1,574 91	111 44	1	111 44	96 99	2.99	149 50
West Boylston,	2,406 25	1,666 21	4,072 46	1	368 32	368 32	4,440 78	1,074 97	237 63	1,312 60	205 10	1.55	77 50
West Bridgewater, .	12,548 28	327 44	12,875 72	763 21	619 62	1,382 83	14,258 55	103 62	196 08	299 70	435 87	3.16	158 00
West Brookfield, .	3,154 09	670 83	3,824 92	194 46	523 42	717 88	4,542 80	250 31	195 30	445 61	157 53	2.68	134 00
Westfield, .	17,488 04	2,641 81	20,129 85	2,748 74	882 21	3,630 95	23,760 80	454 70	151 84	606 54	272 17	5.81	290 50
Westford,	2,771 26	534 58	3,305 84	1	1	1	3,305 84	164 48	1	164 48	116 20	3.25	162 50

262 50	251 50	157 50	158 03	95 50	80	52 50	326 00	194 50	85 00	241 00	132 50	104 00	152 73	98 00	85 00	93 00	101 50	204 50	204 50	90 011	4.40 no
5.25	5.09	3.15	4.25	16.1	5.35	1.05	6.52	3.89	1.70	4.83	2.65	2.08	3.67	1.96	1.70	1.86	2.03	4.09	4.09	3.71)	5.09∫
164 09	294 07	264 24	176 57	313 34	29 90	165 13	245 27	372 04	124 00	238 18	137 32	355 15	56 11	221 02	51 34	68 05	175 22	426 36	109 29	88 21	105 91
210 79	138 83	647 16	1,211 13	340 93	15	343 47	279 36	1,509 16	602 16	2,873 50	85 91	2,815 04	45 02	351 60	63 97	73 49	349 45	835 80	229 38	233 87	455 87
15 44	3 05	3 36	1,173 95	10 34	ı	240 47	105 49	278 46	523 34	1,436 60	2 36	1,721 63	3 41	39 06	1	1	25 98	177 47	106 14	86 27	297 09
195 35	135 78	643 80	37 18	330 59	15	103 00	173 87	1,230 70	78 82	1,436 90	83 55	1,093 41	41 61	312 54	63 97	73 49	323 47	658 33	123 24	147 60	158 78
20,039 99	16,326 89	15,046 58	19,252 09	7,831 44	1,779 96	3,292 88	13,508 76	14,236 14	7,310 60	24,318 79	4,143 61	14,881 66	1,130 26	7,252 92	403 84	852 72	5,439 57	24,096 09	10,217 55	5,305 51	9,332 48
10,424 15	3,399 42	5,118 30	8,188 50	1,119 61	1	1,327 80	688 73	2,331 29	4,016 02	11,835 89	6 25	5,011 96	832 88	2,253 45	197 60	-	1,970 19	5,080 48	3,377 23	320 05	1,512 17
81 06	15 53	10 53	4,989 28	19 75	ı	252 49	77 289	1,083 20	889 69	6,924 45	6 25	3,580 99	12 51	76 55	1	1	52 74	725 85	434 11	320 05	1,512 17
10,343 09	3,383 89	5,107 72	3,109 22	1,099 86	ı	1,075 31	96	1,248 09	3,126 33	4,961 44	1	1,430 97	820 37	2,176 90	197 60	1	1,917 45.	4,354 63	2,043 12	1	1
9,615,84	12,927 47	9,928 28	11,063 59	6,711 83	1,779 96	1,965 08	12,820 03	11,905 19	3,294 58	12,432 90	4,137 36	0,369 70	297 38	4,999 47	296 24	852 72	3,469 38	19,015 61	6,840 32	4,985 46	7,820 31
1,025 63	691 14	2,027 99	158 03	. 631 43	80	108 15	1,133 66	4,787 45	134 00	6,925 85	221 42	2,274 31	152 73	612 59	108 75	136 70	656 65	2,692 59	504 05	547 62	808 22
78,590 21	12,236 33	7,900 29	10,905 56	6,080 40	1,779 16	1,856_93	11,686 37	7,117 74	3,160 58	5,507 05	3,915 94	7,595 39	144 65	4,386 88	187 49	716 02	2,812 73	16,323 02	6,336 27	4,437 84	7,012 09
Westminster,	West Newbury,	Weston,	Westport,	West Springfield, .	West Tisbury,	Westwood,	Weymouth,	Whately,	Whitman,	Wilbraham,	Williamsburg,	Williamstown,	Wilmington,	Winchester,	Winchendon,	Windsor,	Woburn,	Worcester,	Wrentham,	Yarmouth (north), .	Yarmouth (south), .

APPENDIX K.

STATEMENT SHOWING THE NUMBER OF PETITIONS RECEIVED AND THE LENGTH FETITIONED FOR, THE LAYOUTS MADE AND THEIR LENGTH AND DISTRIBUTION IN THE VARIOUS Counties of the Commonwealth.

	PET	ITIONS	RECEI	VED.		ATED 1		LAY	OUTS M	ADE	ber of Layouts.
COUNTIES.	County.	City.	Towns.	Totals.	City.	Towns.	Totals.	City.	Towns.	Totals.	Number of Layou
Barnstable, Berkshire, Bristol, Dukes, Essex, Franklin, Hampden, Hampshire, Middlesex, Norfolk, Plymouth, Suffolk, Vorcester,	15 2 2 3 1 4 1 14 - 2	12 6 21 6 5 25 7 3 9	44 54 47 59 58 32 49 97 1 54 64 6 159	48 81 555 7 83 59 42 55 136 1 61 71 9	2 2 7 3 1 9 1 1 2 2	15 27 17 5 25 18 17 17 42 1 26 25 25 2	15 29 19 5 32 18 20 18 51 1 27 26 4 4 58	-2 1 -7 -2 1 7 -1 1 1 2 2	15 15 17 5 17 14 11 12 32 1 22 19 1	15 17 18 5 24 14 13 13 39 1 23 20 3 45	104 93 98 25 120 89 83 78 169 14 89 125 7
Totals,	48	99	729	876	30	293	323	26	224	250	1,339

Number of Petitions Received, etc. — Concluded.

	LENG				LENGTHS 1	LAID OUT	٠.	
COUNTIES.	PETITIO		1894-1	910.	191	1.	TOTA	Ls.
	Feet.	Miles.	Feet.	Miles.	Feet.	Miles.	Feet.	Miles.
Barnstable,	709,827 802,969 814,631 121,043 1,121,150 676,299 689,104 513,694 1,662,207 34,185 727,471 1,064,989 69,815 1,967,525	134.44 152.08 154.29 22.93 212.34 128.09 130.51 97.29 314.81 6.47 137.78 201.70 13.23 372.62	492,310 314,886 331,810 90,100, 352,280 242,997 285,174 187,726 596,428 34,211 286,849 477,488 19,016 711,177	93.24 59.64 62.85 17.06 66.72 46.02 54.01 35.55 112.97 6.48 54.32 90.43 3.60 134.70	21,817 9,070 29,037 5,959 23,339 18,825 12,522 12,628 36,183 8,975 27,203 16,230	4.13 1.72 5.50 1.13 4.42 3.57 2.37 2.39 6.85 -1.70 5.15	514,127 323,956 360,847 96,059 375,619 261,822 297,696 632,611 34,211 295,824 504,691 19,016 727,407	97.37 61.36 68.35 18.19 71.14 49.59 56.38 37.94 119.82 6.48 56.02 95.58 3.60 137.77
·	10,974,909		4,422,452	837.59	221,788	42.00	4,644,240	879.59

⁴ Town contributed \$300. 5 Town contributed \$150.

APPENDIX L.

Table showing the Work done under the "Small Town" Act since its Passage in 1900.

[Section 17, Chapter 47, Revised Laws, and Chapter 279, Acts of 1908.]

	-	-		-			
		ALLOTMENTS.		LENG	LENGTHS BUILT (FEET).	EET).	
TOWNS.	Previous to 1911.	In 1911.	Total to Nov. 30, 1911.	Previous to 1911.	In 1911.	Total to Nov. 30, 1911.	Types of Roads.
Barnstable County.							
Eastham,	\$2,260 401	ı	\$2,260 40	8,750	ı	8,750	1,150 feet graded only; 7,600 feet surfaced
Mashpec,	1,200 00	1	1,200 00	1,944	1	1,944	Sand and oil.
Provincetown,	5,095 56	1	5,095 561	026'6	ı	9,930	Macadam.
Wellfleet,	1,653 00	1	1,653 00	2,250	1	2,250	Broken stone and clay.
	\$10,208 96	ı	\$10,208 96	22,874	1	22,874	
Berkshire County.							
Alford,	\$1,669 00	\$400 00	\$2,069 00	5,663	1,150	6,813	Gravel.
Becket,	1,450 00	\$00 00G	2,350 00	3,250	1,330	4,580	Gravel and macadam.
Egremont,	3,546 00	₹00 004	4,246 00	8,180	1,550	9,730	Gravel.
Florida,	3,886 00	200 00₺	4,586 00	6,261	260	6,821	Gravel.

1 \$335.40 of 1910 allotment withdrawn.

² Town contributed an equal amount.

³ Town contributed \$500.

WORK DONE UNDER THE "SMALL TOWN" ACT - Continued.

					e bridge.		š.	nstruction and		rs.							
	Types of Roads.		Gravel.	Bituminous macadam.	Gravel road and steel concrete	Gravel and culverts.	Gravel road and bridge repair	Gravel road and culvert con	repairs. Gravel.	Gravel road and culvert repai	Gravel.	Gravel.	Macadam.	Gravel.	Grading and gravel.	Grading and macadam.	Grading and gravel.
EET).	Total to Nov. 30, 1911.		1,150	1,125	5,500	14,200	2,780	2,600	22,550	11,250	8,745	1,389	20,018	10,550	14,232	5,550	8,570
THS BUILT (F)	In 1911.		400	1	1	2,000	°I	1	2,500	1,250	400	1,389	°i	200	750	1,101	1,200
LENG	Previous to 1911.		750	1,125	2,500	12,200	2,780	2,600	20,050	10,000	8,345	-	20,018	9,850	13,482	4,449	7,370
	Total to Nov. 30, 1911.		\$800 00	1,000 000,1	2,952 00	3,418 00	2,192 00	961 00	7,728 00	4,185 92	2,391 00	750 001	8,110 00	5,265 00	7,488 00	3,965 00	4,598 00
ALLOTMENTS.	In 1911.		\$400 00	1	1	\$ 00 00G	400 00	1	1,500 001	617 92	400 00	750 00	200 001	00 009	200 001	800 004	600 008
	Previous to 1911.		\$400 00	1,000 00	2,952 00	2,518 00	1,792 00	961 00	6,228 00	3,568 00	1,991 00	1	7,610 00	4,665 00	6,988 00	3,165 00	3,998 00
			•	•	•	•	•	•	•	•	•	•	•	•	•	·	
		on.	•	•	٠				•	•	•				•		•
	νį	y - C															
	OWN	Count					on,		ď,								
	L	kshire			ıgh,		shingt	rd,	oroug							1, .	n, .
		Ben	Tancock,	Tinsdale,	anesboro	fonterey,	fount Was	Vew Ashfo	Vew Marlk)tis, .	eru, .	Richmond,	Sandisfield	Savoy, .	Sheffield,	Pyringhan	Washington,
	Allotments. Lengths built (Feet).	Total (Fevious to 1911. Total (Form), 1911	-Con. - All-othents. Total Total 1911.	Previous to In 1911. Total In 1911. T	TOWNS. Previous to In 1911. Total to Nov. 30, 1911. Total to Nov.	TOWNS. Previous to In 1911. to Nov. 30, 1911. to	TOWNS. Previous to In 1911. to Nov. 30, 1911. Total 1911. to Nov. 30, 1911. Total	TOWNS. Previous to In 1911. to Nov. 30, 1911. Total 1911. to Nov. 30, 1911. to Nov.	TOWNS. Previous to In 1911. to Nov. 30, 1911. to	TOWNS. Tervious to Total 1911. to Total 1911. Total 1911. to Total	TOWNS. Tervious to Total 1911. to Total 1911. Total 1911. Total 1911. to Total 19	TOWNS. Previous to In 1911. to Nov. 39, 1911. do Nov. 30, 1911. do	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TOWNS. Previous to In 1911. to Nov. 30. Total solutions to In 1911. to Nov. 30. In 1912. to Nov. 30. In 1911. to Nov. 30. In 1912. to N	TOWNS. Previous to In 1911. to Nov. 30, 1911. do	TOWNS Previous to In 1911. to Nov. 30, Previous to In 1911. to Nov. 30, Previous to In 1911. to Nov. 30, In 1920. In 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

13,195 Gravel.	Macadam.			Macadam.	Macadam.	Macadam.	Macadam.	Macadam.			ı			Gravel.	Gravel.	Gravel and repairs.	Gravel and macadam.	Bituminous gravel.	Macadam.
13,195	1,110	172,458		31,686	6,850	6,135	5,100	6,150	58,921		1	1		12,380	19,700	22,000	15,437	12,740	11,008
1,145	530	17,955		1	1	1	5,100	1	5,100		1	1		2,450	12,250	ı'	5,840	12,740	1
12,050	580	154,503		31,686	9,850	6,135	1	6,150	53,821		1	1		9,930	7,450	22,000	9,597	1	11,008
6,026 00	1,000 000,1	\$76,080 19		\$12,000 001	4,176 001	3,316 00	3,500 001	3,400 001	\$26,392 00		\$400 00	\$400 00		\$1,661 001	2,000 00	932 001	2,950 001	1,000 000	7,800 001
100 000	1	\$11,367 92		1	1	1	\$1,200 003	1.	\$1,200 00		1	ı		00 009\$	ı	,	1	1	1
5,326 00	1,000 00	\$64,713 00		\$12,000 00	4,176 00	3,316 00	2,300 00	3,400 00	\$25,192 00		\$400 00	\$400 00		\$1,061 00	2,000 00	932 00	2,950 00	1,000 00	7,800 00
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														•	•				
			unty.							unty.			unty.						
e e			Bristol County.							Dukes County.			Essex County.						
bridg	١.		Bris	٠	٠	٠				Du			Ess				n, .		d, .
West Stockbridge,	Windsor,			Easton, .	Norton,	Raynham,	Rehoboth,	Westport,			Gay Head,			Boxford,	Danvers,	Essex, .	Georgetown, .	Groveland,	Marblehead,

5 Town contributed \$200.

 $\,$ \$4,000 from motor vehicle fees fund used with this allotment, together with \$5,000 contributed by the town.

Work begun but not completed.Town contributed \$400.

1 Town contributed an equal amount.

² Town contributed \$500.

Work done under the "Small Town" Act - Continued.

	11				1011	consequence.	•
		ALLOTMENTS.		LENGT	LENGTHS BUILT (FEET).	er).	
TOWNS.	Previous to 1911.	In 1911.	Total to Nov. 30, 1911.	Previous to 1911.	In 1911.	Total to Nov. 30, 1911.	Types of Roads.
Essex County — Con.							
Middleton,	\$2,644 00	\$400 00	\$3,044 00	6,750	2,550	9,300	Gravel.
North Andover,	1,000 00	200 00	1,500 001	2,250	2,300	4,550	Gravel.
Salisbury,	1,948 00	1	1,948 00	2,150	ı	2,150	Macadam.
Saugus,	ı	1,200 00	1,200 001	ı	1	ı	ı
Swampscott,	2,925 00	ı	2,925 001	5,200	ı	5,200	Macadam.
Topsfield,	3,984 00	1,000 0001	4,984 00	24,37	11,000	35,375	Gravel.
Franklin County.	\$33,244 00	\$3,700 00	\$36,944 00	100,710	49,130	149,840	
Bernardston,	\$2,265 00	\$200 001	\$2,465 00	12,800	1,000	13,800	Gravel.
Charlemont,	2,200 00	.1,000 003,4	3,200 00	1,754	t	1,754	Gravel.
Colrain, , ,	1	900 008	00 006	ı	2,650	2,650	Gravel.
Conway,	4,352 00	900 000	5,252 00	096'2	1,755	9,715	Gravel.
Gill,	2,412 00	800 00e	3,212 00	8,400	3,175	11,575	Gravel road and bridge repairs.
Hawley,	2,407 00	400 00	2,897 00	2,600	-3	009*2	Grading and gravel.
Heath,	3,127 00	400 00	3,527 00	7,472	800	8,272	Gravel.
Leverett,	4,576 00	1,000 0005	5,576 00	12,379	2,700	15,079	Gravel.
Leyden,	2,793 00	400 00	3,193 00	10,700	1,000	11,700	Gravel.

Gravel.	Gravel.	Gravel.	Gravel.	Gravel.	Gravel.	Grading and gravel.		Grading and gravel.	Gravel.	Gravel and macadam.	Grading and gravel.	Gravel.	Grading.	Macadam and concrete culvert.	Gravel.		Gravel.	Grading and concrete culvert.	
7,320	8,737	4,470	9,716	10,950	2,000	11,800	142,138	9,010	850	2,850	13,597	36,200	425	1,425	4,750	009	20,586	5,500	95,793
2,470	-1	1 3	1,306	2,200	1,500		20,556	006	820	-1	002'9	800	-1	1	1,217	009	4,007	-1	14,674
4,850	8,737	4,470	8,410	8,750	2,500	11,800	121,582	8,110	1	2,850	7,297	35,400	425	1,425	3,533	1	16,579	5,500	81,119
3,898 00	5,452 00	1,950 001	3,623 00	3,734 00	5,470 00	6,588 00	\$60,937 00	\$6,235 16	200 00	1,680 00	6,523 00	4,208 00	264 00	1,200 00	1,820 00	1,393 85	5,128 00	3,942 06	\$32,894 07
900 009	200 001	950 00	420 00	900 009	150 001	800 008	\$10,050 00	\$841 16	200 001	1,000 000,1	1,500 009	400 00	400 00	ı	400 00	393 85	1,000 000 8	200 004	\$6,835 01
3,298 00	4,952 00	00 000,1	3,173 00	3,134 00	5,320 00	5,788 00	2 00	90		00	 8	8	9	90	8	90	3 00	3,242 06	90 69
ŝ	4,9	0,1	3,1	3,1	5,3	5,78	\$50,887 00	\$5,394 00	•	00 089	5,023 00	3,808 00	164 00	1,200 00	1,420 00	1,000 00	4,128 00	3,24	\$26,059 06
3,5	. 4,9	1,0	. 3,1	. 3,1	5,35	5,78	\$50,88	\$5,394	·	089	5,023	3,808	. 164	1,200	. 1,420	1,000	4,128	3,24	\$26,0
	4,9	1,0	3,1	3,1	5,33	5,78	\$50,88	\$5,394	•	089	5,023	3,808	164	1,200	1,420	1,000	4,128	3,24	\$26,06
3,5	4,9	0,1	3,1	3,1	5,35	5,78		\$5,394		089	5,023	3,808	164	1,200	1,420	000,1	4,128	3,24	\$26,0
	4,9		3,1	3,1	5,3,3	5,78		\$5,394		089	5,023	3,808		1,200	1,420	1,000	4,128	3,24	\$26,0
	4,9	Jt	3,1	3,1	5,33	5,78				•	5,023	3,808		1,200	1,420		4,128	3,24	\$26,0
	New Salem, 4,9	0,1		Shutesbury, 3,1		5,78	S50,88 Sounty.	Blandford,	· · · · · · · · ·	East Longmeadow, 680	Granville, 5,023	Hampden, 3,808		Longmeadow, 1,200	Montgomery, 1,420	1,000	Southwick, 4,129	3,24	\$26,0

¹ Town contributed an equal amount.

2 Work not yet begun.

³ This allotment and \$1,200 allotted in 1910 expended in widening, removing ledge, etc., at various points on about 6 miles of road.

4 Town contributed \$400. 5 Town contributed \$500.

6 Town contributed \$200.

7 Work begun but not completed. 8 Town contributed \$250.

9 Town contributed \$1,000.

WORK DONE UNDER THE "SMALL TOWN" ACT — Continued.

		Types of Roads.		Macadam.	Gravel.	Gravel.	Macadam.	Gravel.	Gravel.	Gravel.	Gravel.	Gravel.	Gravel.	Grading and gravel.	1	Gravel.	Macadam.	Gravel.	
	FEET).	Total to Nov. 30, 1911.		4,435	5,750	006'6	2,430	23,610	4,600	5,425	6,200	8,100	4,536	7,430	1,963	12,143	4,100	14,315	114,937
	LENGTHS BUILT (FEET).	In 1911.		1	2,450	í	ſ	i	1,500	1	2,000	1,300	200	1,300	1,963	1,400	3,200	3,335	18,948
	LENC	Previous to		4,435	3,300	006'6	2,430	23,610	3,100	5,425	4,200	008'9	4,036	6,130	'	10,743	006	10,980	95,989
		Total to Nov. 30, 1911.		\$4,800 001	5,170 00	4,233 00	2,000 001	5,314 00	2,776 00	1,800 001	1,910 00	4,020 00	3,580 00	3,930 00	1,250 00	4,259 00	1,500 00	7,177 00	\$53,719 00
	ALLOTMENTS.	In 1911.		1	\$750 00	1	1	1,000 000,1	400 00	ſ	£ 00 009	\$00 00€	400 00	£ 00 009	1	750 00 5	1,000 000,1	1,150 00 €	\$7,450 00
		Previous to 1911.		\$4,800 00	4,420 00	4,233 00	2,000 00	4,314 00	2,376 00	1,800 00	1,310 00	3,220 00	3,180 00	3,330 00	1,250 00	3,509 00	200 00	6,027 00	\$46,269 00
					•	•		•	•	•		•	•	•	•		٠	•	
						•	•		٠		•	•	•		•	•	•	•	
		vi	Jounty																
		TOWNS	shire C																
-		Ħ	Hampshire County	Amherst, .	Chesterfield, .	Cummington,	Easthampton,	Enfield, .	Greenwich, .	Huntington, .	Middlefield, .	Pelham, .	Plainfield, .	Prescott, .	Southampton,	Westhampton,	Williamsburg,	Worthington,	

	Gravel.	Macadam.	Macadam.	Macadam.	ı	Gravel.	Macadam.	Gravel.	Macadam.	Gravel.	Grading and gravel.	Gravel.	Grading, macadam and bridge repairs.	Macadam.	Gravel.	Macadam.	Gravel.	Gravel.	Gravel.	Macadam.	4 Town contributed \$250.
	17,600	2,100	5,237	8,250	7,100	12,550	2,800	13,300	4,200	1	19,057	4,492	15,233	15,633	4,050	4,150	28,700	22,450	8,472	986'9	4 Tc
	ı	2,100		1	7,100	1,750	2,800	3,000	4,200	- 3	8,200	1	ı	6,200	ı	1,200	ı	2,900	1	1	
	17,600	1	5,237	8,250	ı	10,800	1	10,300	1	1	10,857	4,492	15,233	9,433	4,050	2,950	28,700	19,550	8,472	986'9	
_	\$4,000 001	1,500 001	2,300 001	5,984 001	6,000 001	2,936 00	4,000 001	2,199 00	4,000 001	2,000 001	2,000 00	2,012 00 1	9,383 891	7,500 001	1,000 000,1	3,132 001	5,558 00	5,534 00	3,145 00	5,150 001	
	1	\$1,500 00	ı	ı	2,000 00	400 00	2,000 00	400 00	ı	2,000 00	1,000 000,1	ı	1	2,500 00	ı	1,000 00	ı	1	1	1	amount.
_	\$4,000 00	ı	2,300 00	5,984 00	4,000 00	2,536 00	2,000 00	1,799 00	4,000 00	1	4,000 00	2,012 00	9,383 89	2,000 00	1,000 00	2,132 00	5,558 00	5,534 00	3,145 00	5,150 00	1 Town contributed an equal amount.
_	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	٠	ntrib
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.uth.		٠	٠	•	٠	٠	٠	٠		٠	٠		٠	•	٠		•		٠		1 To
Middlesex County.		٠		٠			٠			٠	•		٠	٠	٠						
delese	1	•	•		•		•	•	•			•	•		•	٠		٠	•		
Mic		•	•		. , u		•	, e	am,	. п.				ading		•		٠	•		
	Ayer, .	Bedford,	Belmont,	Billerica,	Burlington,	Carlisle,	Dracut,	Dunstable,	Framingham,	Hopkinton,	Hudson,	Littleton,	Maynard,	North Reading,	Pepperell,	Reading,	Sherborn,	Shirley,	Stow, .	Wakefield,	

4 Town contributed \$250.

⁵ Town contributed \$300.

² Work begun but not completed. 3 Town contributed \$200.

6 Town contributed \$1,000.

WORK DONE UNDER THE "SMALL TOWN" ACT - Continued.

	Types of Roads.		Bituminous macadam.	Gravel.			Gravel and macadam.	Macadam.	Macadam,	Macadam.	Gravel.	ı			Macadam.	Macadam.	Macadam.	Macadam.
Feer).	Total to Nov. 30, 1911.		1,175	5,400	208,905		8,290	2,750	720	11,256	14,150		37,166		5,760	46,545	17,090	7,725
LENGTHS BUILT (FEET).	In 1911.		1,175	1	40,625		1	ı	ı	<u></u>	3,850	1	3,850		1	1	1	~
Гемс	Previous to 1911.		ı	5,400	168,310		8,290	2,750	720	11,256	10,300	ı	33,316		5,760	46,545	17,090	7,725
	Total to Nov. 30, 1911.		\$1,449 501	2,366 30	\$86,149 69		\$2,969 00	1,412 00	1,040 001	4,828 001	5,136 00	1,500 001	\$16,885 00		\$2,600 001	13,990 001	9,142 871	4,304 00
ALLOTMENTS.	In 1911.		\$1,449 50	ı	\$14,249 50		1	ı	1	ı	ı	1	ı		1	ı	1	\$500 00
	Previous to 1911.		ı	\$2,366 30	\$71,900 19		\$2,969 00	1,412 00	1,040 00	4,828 00	5,136 00	1,500 00	\$16,885 00		\$2,600 00	13,990 00	9,142 87	3,804 00
	TOWNS.	Middlesex County - Con.	Wayland,	Westford,		Norfolk County.	Avon,	Bellingham,	Medfield,	Medway,	Millis,	Norfolk,		Plymouth County.	Abington,	Carver,	East Bridgewater,	Halifax,

Macadam.	Macadam.	Macadam and gravel.	Gravel.	Gravel road and concrete bridge.	Sand and oil.	Gravel.	Macadam and gravel.	Macadam.	Sand and oil.			Gravel.	Gravel.	Gravel.	Gravel.	Macadam.	Gravel.	Macadam.	Gravel.	Gravel.	4 Town contributed \$200.
2,827	33,824	12,790	11,111	31,907	2,000	16,713	25,304	2,165	7,200	230,961		18,335	15,333	26,960	8,530	2,500	12,125	t	1,600	6,655	4 Tow
,	3,615	10,150	6,040	3,436	ı	12	6,277	2,165	7,200	38,883		6,270	2,450	4,125	ı	ı	2,900	ig I	ı	ı	
2,827	30,209	2,640	13,071	28,471	2,000	16,713	19,027	ı	1	192,078		12,065	12,883	22,835	8,530	2,500	9,225	ı	1,600	6,655	
2,048 823	10,992 001	2,200 00	3,880 001	5,423 45	1,000 000,1	3,067 00	2,500 00	1,000 000,1	1,500 001	\$66,648 14		\$7,094 00	4,424 00	5,014 00	3,060 00	00 006	4,469 00	3,000 001	1,200 001	3,085 00	
,	1,000 00	1,500 001	00 009	875 451	ı	400 004	1,000 000,1	1,000 00	1,500 00	\$8,375 45		\$1,450 001	400 001	₹00 009	ı	ı	900 008	3,000 00	200 00	ı	nount.
2,048 821	9,992 00	200 00	3,280 00	4,548 00	1,000 00	2,667 00	4,500 00	1.	ı	\$58,272 69		\$5,644 00	4,024 00	4,414 00	3,060 00	00 006	3,669 00	ı	1,000 00	3,085 00	Town contributed an equal amount.
•	•	•		•	•	•	•	•	•			•	•	•	•	•		•	•	•	ribut
		٠	٠	٠	٠		٠	٠	٠			٠	٠	٠		٠	٠	٠		٠	cont
		٠	٠	٠	٠		٠	٠	i		nty.	٠	٠	٠	٠	٠	٠		٠	٠	Town
	•	•		٠					•		Worcester County.		٠	٠	•	٠	٠	•	٠	•	
		•									rcester			•	•	•		•	•		
Hanover, .	Hanson,	Lakeville, .	Norwell, .	Pembroke, .	Plymouth, .	Plympton, .	Rochester, .	Rockland, .	Wareham, .		Wo	Ashburnham,	Berlin,	Bolton,	Boylston, .	Brookfield, .	Dana,	Hardwick, .	Holden, .	Hubbardston,	

⁴ Town contributed \$200.

5 Work begun but not completed.

6 Town contributed \$400.

3 \$319.18 of 1903 allotment withdrawn.

2 Work not yet begun.

WORK DONE UNDER THE "SMALL TOWN" ACT — Concluded.

ZAPAR CIT							The same of the sa
Charles City	4	ALLOTMENTS.		Leng	LENGTHS BUILT (FEET).	BET).	
TOWNS.	Previous to 1911.	In 1911.	Total to Nov. 30, 1911.	Previous to	In 1911.	Total to Nov. 30, 1911.	Types of Roads.
Worcester County - Con.							
Mendon,	\$3,464 00	\$1,000 001	\$4,464 00	16,742	2,000	18.742	Gravel and repairs.
New Braintree,	450 00	450 00	00 006	1,400	13	1,400	Macadam.
Oakham,	3,918 00	200 00	4,418 00	9,410	2,500	11,910	Gravel and macadam.
Oxford,	1,600 00	1,500 00	3,100 001	006'9	6,798	13,698	Gravel.
Petersham,	00 096'9	,	00 096'9	8,635	1,800	10,435	Gravel.
Phillipston,	1	200 002	200 00	1	71	ι΄	Gravel.
Rutland,	1,804 00	,	1,804 00	2,581	1	2,581	Gravel and macadam.
Shrewsbury,	300 00	1,000 000,1	1,300 00	•	3,800	3,800	Gravel.
Southbridge,	6,400 00	1	6,400 001	2,293	1	2,293	Vitrified paving brick (paved).
Winchendon,	4,000 00	-	4,000 001	9,210	-	9,210	Gravel.
750	\$54,692 00	\$11,600 00	\$66,292 00	133,464	32,643	166,107	

¹ Town contributed an equal amount.
² Work not yet begun.

4 Work begun but not completed. ³ Town contributed \$300.

SUMMARY.

	1			I			I	1	I					The second second	
											ALLOTMENTS.		Lend	LENGTHS BULLT (FEET).	ET).
			50	COUNTIES	ν <u>ά</u>					Previous to 1911.	In 1911.	Total to Nov. 30, 1911.	Previous to 1911.	In 1911.	Total to Nov. 30, 1911.
Barnstable,										\$10,208 96	ŧ	\$10,208 96	22,874		22,874
Berkshire,										64,713 00	\$11,367 92	76,080 92	154,503	17,955	172,458
Bristol, .										25,192 00	1,200 00	26,392 00	53,821	5,100	58,921
Dukes, .										400 00	ı	400 00	1	1	1
Essex, .			·		·					33,244 00	3,700 00	36,944 00	100,710	49,130	149,840
Franklin, .					•				_	\$0,887 00	10,050 00	60,937 00	121,582	20,556	142,138
Hampden,										26,059 06	6,835 01	32,894 07	81,119	14,674	95,793
Hampshire,					·					46,269 00	7,450 00	53,719 00	95,989	18,948	114,937
Middlesex,										71,900 19	14,249 50	86,149 69	168,310	40,625	208,935
Norfolk, .										16,885 00	1	16,885 00	33,316	3,850	37,166
Plymouth,				·	•					58,272 69	8,375 45	66,648 14	192,078	38,883	230,961
Worcester,					·					54,692 00	11,600 00	66,292 00	133,464	32,643	166,107
		3	1	ļ						\$458,722 90	\$74,827 88	\$533,550 78	1,157,7661	242,364	1,400,130

1 The difference between this figure and that given in the last annual report is explained by the fact that some sections of road were graded one year and surfaced the next, the lengths so improved having been entered twice.

APPENDIX M.

APPROPRIATIONS.

Appropriations	for the (Cons	stru	ction	and	Repair	of	State	Highway	js.
1894, chapter 49'	7, section	1 8,							\$300,000	00
1895, chapter 34	7, section	3,							400,000	00
1896, chapter 483	l, section	ı 3,		١.					600,000	00
1897, chapter 340), section	1,							800,000	00
1898, chapter 539	e, section	1,							400,000	00
1899, chapter 396	3, section	1,							500,000	00
1900, chapter 442	2, section	1,							500,000	00
1901, chapter 269), section	1,							500,000	00
1902, chapter 246	3, section	1,							500,000	00
1903, chapter 280), section	1,						. 1	2,250,000	00
1907, chapter 446	6, section	1,						. 1	2,500,000	00
								-		
								\$	9,250,000	00
Ammanuintions		~ -								

Appropriations for the Salaries and Expenses of the Commission, paid from the Treasury of the Commonwealth.

1898,	chapter	497,	section	1,					\$14,300	00
1899,	chapter	367,	section	1,					28,500	00
1900,	chapter	141,	section	1,					28,500	00
1901,	chapter	451,	section	1,					33,750	00
1902,	chapter	67,	section	1,					33,750	00
1903,	chapters	14 a	and 485	, sec	etion	1,			² 43,950	00
1904,	chapters	. 19 a	and 461	Ĺ, sed	etion	1,			² 39,300	00
1905,	chapters	36,	431 an	d 48	0, se	ction	1.		² 46,150	00
1906,	chapters	36 a	and 140), sec	etion	1,			² 49,514	14
1907,	chapter	157,	section	1,					* 66,950	00
1908,	chapter	212,	section	1,					* 76,300	00
1909,	chapter	127,		,					47,300	00
	chapter								* 56,250	00
	chapter								* 61,250	
	_			_					•	

¹ To cover expenses of construction for a period of five years.

² Includes expenses of automobile department.

³ Includes expenses of moth suppression and automobile department in part.

⁴ Includes expense of moth suppression.

Appropriations for Maintenance, paid from the Treasury of the Commonwealth.

1903, chapter 280, section 2,			\$40,000 00
1904, chapter 316, section 1,			50,000 00
1905, chapter 36, section 1,			60,000 00
1906, chapter 36, section 1,			64,166 66
1907, chapter 157, section 1,			100,000 00
1908, chapters 212 and 657, section 1,			150,000 00
1909, chapters 127 and 493, section 1,			250,000 00
1910, chapter 139, section 1,			200,000 00
· · · · · · · · · · · · · · · · · · ·			200,000 00



PART II.

SIXTH ANNUAL REPORT

OF THE

MASSACHUSETTS HIGHWAY COMMISSION,

FOR THE

FISCAL YEAR ENDING NOVEMBER 30, 1911,

ON

COMPANIES ENGAGED IN THE TRANSMISSION OF INTELLIGENCE BY ELECTRICITY.

CHAPTER 433, ACTS OF 1906.



PART II.

ANNUAL REPORT OF THE MASSACHUSETTS HIGH-WAY COMMISSION CONCERNING COMPANIES ENGAGED IN THE TRANSMISSION OF INTEL-LIGENCE BY ELECTRICITY.

Not nearly as many telephone hearings were required during the fiscal year of 1911 as were required in each of the last three or four years, when the question of a new schedule of rates for the central and suburban district was under consideration.

The commission has had many conferences, however, with its experts and with the officials of the telephone company in regard to particular rates and schedules. It has also held formal hearings on the following matters, which are more fully mentioned hereinafter:—

Complaints as to the rates and service in the towns of Chilmark and Gay Head, in the town of Barnstable, in the town of Dennis and in Marlborough and Hudson.

In addition to these, the commission has had many conferences with individual subscribers as to particular rates and particular complaints involving the question of facilities furnished, charges for mileage, toll rates, collections under the measured service, etc. As at all times in the past, the officials of the telephone company have given the members of the commission the most effective co-operation.

The particular important changes in rates and the recommendations made by the commission are set forth at length later in this report.

INCREASE IN THE NUMBER OF TELEPHONES.

Professor Jackson reports that during the twelve months ending Nov. 30, 1911, the number of telephones operated by the New England Telephone and Telegraph Company, and

the Southern Massachusetts Telephone Company, increased 29,590, making the total on Nov. 30, 1911, 284,426 telephones.

The increase for the year ending Dec. 30, 1910, was 26,515.

It must be also taken into account that the proposed groupings and new rates which had been adopted during the year, making substantial reductions in many classes of service and in many localities, had not been in effect long enough to affect these figures.

Annual Returns.

The annual returns for the year ending June 30, 1911, were received from the several telephone and telegraph companies doing business in this State. These have been analyzed, and abstracts of them are shown in Appendix A.

A comparative statement of statistical information relating to telephone companies for the years ending June 30, 1911, and 1910, is given herewith.

State	of	Massachusetts.
-------	----	----------------

							1911.	1910.	Increase.
Number of subscribers,							271,608	243,779	27,829
Number of instruments,				i.			279,874	251,413	28,461
Number of operators,							3,636	3,566	70
Number of pay stations,							7,714	7,159	555
Gross receipts,							\$11,937,880	\$11,088,885	\$848,995
Operating expenses, .				Ĭ.			\$8,432,785	\$7,973,634	\$459,1511
Net earnings,			·				\$3,505,095	\$3,115,251	\$389,8441
Per cent. of expenses to	arn	ings.	·	i.			70.6	71 9	1 32
Number of subscribers of							226,700	205,915	20,785
Number of subscribers o						- 11	44,908	37,864	7,044
Underground system: —		ageo.					11,000	01,002	*,011
Conduit, feet, .							3,432,350	3,317,552	114,798
Duct, feet,		•	•		•	•	17,128,187	16,643,388	484,799
Cable, feet,	:		•	•	•	- 1	8,382,338	7,750,912	631,426
Wire, miles,			•				455,089	391,683	63,406
Submarine system:	•	•	•	•	•		100,000	001,000	00,±00
Cable, feet,							56,160	56,882	722 1
Wire, miles,		•		•	•		780	747	33
Overhead system: —	•	•	•	•		1	100	141	00
Pole line, miles, .							10,099	11,217	1,1183
Iron wire, miles, .				•	•		44,420	51,165	6,7452
				•		•			
Copper wire, miles,		•		•		•	182,352	164,832	17,520

¹ In the statement of operating expenses for the year 1911 shown above, the taxes amounting to \$774.134 are not included although the taxes are included in the 1910 figures. This would alter the increase net earnings to a decrease amounting to \$384.290.

It should be noted that the gross receipts represent the earnings (less rebates and discounts) from telephone traffic solely, and the data here given refer only to conditions within the State.

² Decrease.

In this connection it is of interest to note the reduction of pole line, amounting to over 1,100 miles, and the steadily growing increase of the underground system.

NEW RATES APPROVED OUTSIDE THE BOSTON AND SUBURBAN DISTRICT.

After the new schedule had been adopted in the Boston and suburban district, a study of the various rates in force in other localities made it seem desirable that the rates in those localities should be readjusted so as to more nearly conform to the rates in force in the metropolitan and suburban district. Accordingly, a new rate schedule was suggested, covering the whole State, containing eight groupings of the various exchanges with simplified rates therein, conforming as nearly as possible to the rates recommended and adopted in the Boston and suburban district. This schedule was approved and is rapidly being put into effect.

This schedule resulted in reducing many rates in most of the localities affected, and in no case increased any rate for similar classes of service. It also had a tendency to very much reduce the number of the heavily loaded multi-party lines in the larger communities.

This schedule and its effect are more fully set forth in the report of the commission's experts, D. C. and William B. Jackson, which is in part as follows:—

LOCAL SERVICE RATES IN THE CITIES AND TOWNS OTHER THAN BOSTON AND ITS SUBURBS.

During the course of the year, the telephone company put improved rates into effect throughout the State. These rates had in view the reduction of the multi-party service, with large numbers of parties per line, and the simplification of the service, in addition to reductions in the prices paid by subscribers. The exchanges of the company in Massachusetts were grouped for the purpose under eight groups.

Group No. 1 includes Springfield and Indian Orchard, conjointly, and Worcester, making 2 places in Massachusetts within the group.

Group No. 2 includes Fall River, Lawrence, Lowell, Lynn and New Bedford, making 5 Massachusetts places within the group.

Group No. 3 includes Brockton, Fitchburg, Haverhill, Holyoke, Salem and Taunton, making 6 Massachusetts places within the group.

Group No. 4 includes Pittsfield, making 1 Massachusetts place in the group.

Group No. 5 includes Beverly, Gloucester, North Adams and Northampton, making 4 Massachusetts places in the group.

Group No. 6 includes Chicopee, Clinton, Gardner, Leominster, Marlborough, Newburyport, South Framingham and Westfield, making 8 Massachusetts places in the group.

Group No. 7 includes Adams, Amesbury, Amherst, Andover, Athol, Bridgewater, Concord, Danvers, Easthampton, Franklin, Great Barrington, Greenfield, Hudson, Lee, Mansfield, Marblehead, Martha's Vineyard, Middleborough, Milford, Nantucket, Natick, North Brookfield, Orange, Palmer, Peabody, Plymouth, Rockland, Saugus, Southbridge, Spencer, Stoughton, Walpole, Ware, Webster, Westborough, Whitman and Winchendon, making 37 Massachusetts places in the group.

Group No. 8 includes Dalton, Falmouth, Hanover, Housatonic, Lenox, Magnolia, Manchester, Medfield, Millbury, North Easton, Provincetown, Sagamore, Sharon, Stockbridge, Turner's Falls, Williamstown, Wrentham and 116 smaller exchanges, making 133 Massachusetts places in the group.

The grouping here referred to is made for the purpose of making rates which approximate as closely as practicable to the requirements of the various parts of the diverse territory. The grouping is based largely upon the telephone development in the different places. These groups have been extended over the whole of the company's territory, so that they go throughout Vermont, New Hampshire and Maine, as well as Massachusetts. At the time the grouping was made, the average number of telephones per exchange or exchange district in group 1 was 12,532, in group 2 was 5,990 per exchange, in group 3 was 3,299 per exchange, in group 4 was 4,254 per exchange, in group 5 was 1,821 per exchange, in group 6 was 1,327 per ex-

change, in group 7 was 548 per exchange, and in group 8 was 122 per exchange.

The new rates are given in the attached table. The rates are for local service in the individual exchanges or exchange districts.

It will be observed that groups 1 and 2, composed of the larger exchanges, have no business service on party lines, and no residence service with more than four parties on a line. In the remainder of the groups, which are mostly of small exchanges, two-party flat-rate business service is offered, and four-party business service is offered only in the group of very small exchanges. In only the last five groups six-party flat-rate residence service is offered. Inasmuch as the service in each place having the multi-party rates is local service, in a relatively small exchange unentangled with large city service, the multi-party rates may probably remain compatible with good service to the subscribers.

The new arrangement has made it practicable for the company to make obsolete its old six-party service in the larger places, and the old ten-party service in the smaller places, which classes of service were poor. The abandonment has been effected without injuriously affecting the subscribers' privileges. The readjustment of the classification has been accompanied by a lowering of rates so that the subscribers throughout the State have made a gain by this rearrangement of rates.

It is estimated that this change of rates would reduce the company's gross receipts obtained from the number of telephones in use by from \$50,000 to \$80,000. The time elapsed since the rates were put into effect is as yet too brief to afford a check on this estimate. The new rates were made effective in different portions of the territory at different dates, between July 1 and Nov. 1, 1911; but the company's plant is not yet brought up to the point where it can take care of all subscribers desiring the new service.

RATES IN EFFECT OUTSIDE OF THE BOSTON AND SUBURBAN DISTRICT.

B	One- party Business.	Flat Residence.	Two- Party Business.	Flat Residence.	Four- party Business.	Flat Residence.	Six- party Business.	Flat Residence.	One-party Measured Serv- ice.	Two-party Measured Sorv- ice.	Four- party Business.	Coin Box Res- idence.
	\$63 00	\$36 00	1	\$30 00		\$25 00	-	1	\$39 00 (780 calls)	-	\$27 50	\$18 25
	57 00	33 00	1	27 00	1	25 00	ı	1	36 .00 (720 calls)	1	27 50	18 25
	51 00	30 00	\$42 00	24 00	ı	21 00	ı	ı	33 00 (825 calls)	ı	27 50	18 25
	45 00	30 00	36 00	24 00	ı	21 00	ı	\$18 00	30 00 (750 calls)	\$24 00 (600 calls)	ı	1
	42 00	27 00	33 00	21 00	ı	ı	ı	18 00	ı	24 00 (600 calls)	1	1
	39 00	27 00	30 00	21 00	1	1	ı	18 00	ı	1	1	1
	36 00	27 00	27 00	21 00	ı	1	ı	18 00	1	1	1	1
	33 00	24 00	24 00	21 00	\$21 00	1	ı	18 00		1	1	1

LOCAL TOLL RATES.

In order that the rates throughout the State might more nearly conform to the rates in the Boston and suburban district, it seemed possible that the toll rates for short distances throughout the State might be put upon the same basis, and therefore on Dec. 13, 1910, a rate was approved by the commission making a 5-cent toll charge between exchanges and toll points that were situated not more than 5 miles apart, air line measurement, a rate of 10 cents between exchanges and toll points that were more than 5 and not more than 15 miles apart, and a rate of 15 cents between exchanges and toll points that were 15 and not more than 25 miles apart. This change in rates affected over 390 exchanges.

This will result in a very substantial reduction in the toll rates charged throughout the Commonwealth for short distances. It is impossible to estimate how much that reduction will amount to, at the present time, but it is possible that some of it will be made up by the increase in business because of the lower rates.

Several other minor changes were made which seemed necessary from time to time to meet special local conditions.

RECOMMENDED SCHEDULE OF RATES FOR BOSTON AND SUBURBAN DISTRICT.

The rates recommended last year for the central and suburban district are apparently working smoothly and satisfactorily considering that there were nearly 100,000 subscribers to be dealt with.

The number of telephones in the central exchanges increased over 4,200, and in the suburban exchanges over 10,200 from November, 1910, to November, 1911, as against 3,000 and 7,300, respectively, from November, 1909, to November, 1910. The percentage of increase for the last year was 8.1 per cent. in the central exchanges and 14.2 per cent. in the suburban exchanges, compared with 6.2 per cent. and 11.5 per cent., respectively, in the previous year.

A large majority of all the subscribers are now taking the new rates, with the exception of the four and six party un-

limited suburban service. Even in this service, nearly one-half of all four-party subscribers and nearly one-third of all six-party subscribers have already subscribed to the new rates, although the time when the old rates would have become obsolete was extended to March, 1913, for that class of service.

It is impossible at this time to tell accurately what the reduction in the revenue of the company will be or the saving to the subscribers, but judging by the figures collated by Professor Jackson for ten months of this year, as compared with those for ten months of last year, the average saving for each telephone in use is about \$3.35 in the suburban district, and about \$3 per telephone in use in the seven central exchanges.

From the best figures available it seems now as if the reduction in the gross revenue of the company in this district this year will probably be somewhere between \$300,000 and \$400,000, as was estimated by the commission in its letter recommending the new schedule of rates, in August, 1910. The commission believes that this reduction in the gross revenue of the company is not permanent, as it feels sure that the new rates will result in a much larger number of subscribers in a short period of time, and that there will be a considerable increase in the revenue also from tolls. It will still remain true, however, that the amount collected from each telephone subscriber, among the smaller users, for the same service, will be much less, especially in the measured service, than it was under the old schedule of rates.

Of course the commission realizes that while this large reduction in the gross revenue of the company was made, this does not mean that there was a uniform reduction of the rate, per telephone, because the new rates were essentially a readjustment of telephone rates so that they would operate more fairly as between the different classes of subscribers, and so that the larger users would be required to more nearly pay for the service which they received, and not have so much of it charged to the smaller users, especially those having measured service who, at the time the investigation was made, were bearing more than their fair share of the cost of the service.

ONE AND TWO-PARTY UNLIMITED SUBURBAN SERVICE.

As it seemed likely that there were a large number of people who might desire an unlimited service covering all the suburbs, and as it seemed that a rate covering one and two party lines could be adopted without unbalancing the rest of the schedule, two new rates were added to the schedule recommended by the commission in August, 1910, for the metropolitan and suburban district.

These consisted of a single party, full suburban unlimited residence service at \$45 per year, and a two-party, full suburban unlimited residence service, at \$36 per year. These two rates were made effective on Feb. 9, 1911, and there are already 6,072 subscribers to this class of service.

MISCELLANEOUS MODIFICATIONS.

Various miscellaneous modifications of the rates have been made. One which was quite important was the extension of the 15-cent toll rate for points within the suburban district to exchanges and toll points located not more than 25 miles apart, instead of 24 miles, as it had been. This change made a meeting point between the short toll rates in force in the metropolitan and suburban district and those in force under the new schedule adopted throughout the State, at 25 miles.

SPECIAL HEARINGS.

During the year the commission had three petitions presented on which it gave hearings which were well attended. These were from Chilmark and Gay Head, Barnstable and Dennis and Marlborough and Hudson.

Chilmark and Gay Head.

A hearing was given on this petition, and the questions involved appear fully in the following letter, which was sent to the petitioners by the commission:—

APRIL 12, 1911.

Mr. B. F. MAYHEW, Chilmark, Mass.

DEAR SIR: — In the matter of the petition of certain telephone subscribers in Chilmark and Gay Head, requesting a reduction in the rate charged on farmers' lines by the Southern Massachusetts Telephone Company, a hearing was given to the petitioners and the company on Thursday, March 30.

At the hearing it appeared that the rates complained of are the regular farmers' rates charged throughout New England in similar communities for this class of service with the regular mileage charge, the mileage being figured on an air-line distance, with no charge for mileage except for distances beyond 6 miles.

It appeared, also, that the whole island of Martha's Vineyard, some 6 or 7 miles from the exchange center in one direction, and 15 in the other, is included in the unlimited service; that such service is a great convenience, and that it would be a distinct disadvantage if two exchanges were established with a toll between, even though the mileage charge was thereby done away with.

It also appeared that the whole net revenue from exchange service secured on the island is only sufficient to pay $1\frac{1}{2}$ per cent. on the value of the plant there.

After due consideration, the commission is unable to recommend that the mileage charge complained of be done away with, because such a charge is universal elsewhere through the Commonwealth, and seems, so far as the commission can see at the present time, the fairest way, on the whole, of distributing the cost of service among the different subscribers. Moreover, in this particular case, the charge is evidently not excessive, because there is not enough money collected thereby to pay for the additional cost of the lines, maintenance and depreciation, even without interest on their cost.

For the Massachusetts Highway Commission.

(Signed) F. I. BIELER, Secretary.

Barnstable.

The Barnstable hearing really arose from the fact that the company had established some new exchanges at different points in order to give better service and, as they thought, better accommodation to the telephone users in that district.

The result of this was that in the town of Barnstable there were three separate and distinct exchanges, and between two of them a regular toll charge. On account of the distance that they were apart, and the size of the town, the regular toll rate in force throughout the State required a 10-cent charge. There

was some question as to whether the new exchanges were located so as to accommodate the best interests of the larger number of the subscribers.

However, the main objection was to the 10-cent rate. This was obviated by a suggestion made by the commission, and adopted by the company, applicable not only to Barnstable but to any other large community, that in no event should any toll rate be charged between adjoining exchanges situated in the same municipality, in excess of 5 cents. The petitioners agreed that if this rate could be secured it would be a proper solution of the difficulty.

It was also claimed at the hearing that a majority of the West Barnstable subscribers would prefer to be connected with the Cotuit exchange rather than with the Barnstable exchange. A canvass was made of the subscribers and, so far as they could be reached, it seemed that they preferred to remain connected with the Barnstable exchange.

Dennis.

One representative appeared from Dennis and objected to the present arrangement and location of the exchanges which serve the telephone users in the town of Dennis. This matter was taken under advisement for the purpose of securing information from the subscribers as a whole before any finding was made thereon.

The representative who appeared objected to the location of the new exchange recently established in Dennis, and claimed that a majority of the subscribers would be better accommodated by the discontinuance of the Dennis exchange and the establishment of two exchanges, one on either side of the town, part of the subscribers to be connected with one and part with the other.

As there seemed to be a difference of opinion between this representative of Dennis and the representative of the telephone company as to the wishes of the subscribers in Dennis, nothing further was done in the matter, pending the collection of further information which should enable the commission to determine, with a full knowledge of all the facts, what would best serve the community.

Marlborough-Hudson.

While several matters were presented in the petition, it developed at the hearing that the main cause of contention was the discontinuance of the six and ten party lines, with unlimited service, which covered both the Marlborough and Hudson exchanges for one rate.

There was no evidence presented at the hearing which would seem to justify the commission in recommending the restoration of this six and ten party line service in a district like Marlborough and Hudson. It seemed clear that subscribers in either community, having occasion to call subscribers in the other, frequently could secure service well adapted to their requirements by taking the one or two party lines covering service in both Marlborough and Hudson. Subscribers having little occasion to call the other community would seem to have a service well adapted to their needs in the local service, paying the minimum toll charge for each call made to the other exchange.

It also seemed inadvisable to recommend changes in rate schedules when the company had just adopted and was putting into effect a new rate schedule throughout its entire territory, which it was believed would be shown by experience to be better adapted to the needs of all the various communities, and would certainly lead to a much greater uniformity of rates and fewer discriminations than heretofore existed.

The commission felt that these new rates should have a fair trial, so that the actual results therefrom could be ascertained before any changes were made.

The only other matter which seemed of much importance was the question of the character of service furnished, which the company agreed was not what it ought to be, but was occasioned by the fact that they had installed a modern switchboard, and that nearly 80 per cent. of the subscribers had either their ring number or line number changed, and considerable time was required in order to remedy all the defects that occurred from the use of the new switchboard and its complicated machinery, and to smooth up the service while the changes were being made in the subscribers' numbers and rings.

The company states that this temporary deterioration in the service is inevitable wherever a change is made from a magneto to a common battery operation. At the present time the company reports to the commission that the service has been restored to the standard.

FUTURE STUDIES AS TO REVENUE AND TRAFFIC.

It seemed wise to the commission, now that the new rates have gone into effect, that further studies should be made, both of revenue and traffic, in order to determine what, if any, further readjustments and reductions should be made, not only in local service, but as between local and toll service.

Therefore, in August, 1911, the commission wrote to the telephone company requesting it to collect further data "which can be used to show the results of the new rates recently put into effect in the different classes of service in the metropolitan and suburban district as compared with the old rates in that district. It would also like to have any data collected and collated which would enable its experts and yours to ascertain if it is possible at some future time to agree upon a formula which might with some reasonable degree of accuracy allocate traffic, revenue, expenses and investment as between toll and local service." The commission also requested the company to act in co-operation with its experts, Prof. D. C. Jackson of the Institute of Technology and Mr. A. R. Patterson, auditor of the firm of Stone & Webster.

The company is at present engaged in collecting the necessary data, but it is evident that in order to be of any substantial value the data must cover a period of at least a year from the time that a sufficient number of subscribers were under the new schedules to make it a fair criterion on which to judge of future conditions.

Of course it is understood that the commission intends to keep in close touch with the situation, especially the workings of the new rate schedules, which have been recommended not only for the Boston and suburban district, but throughout the State, and from time to time to make such recommendations in regard to rates as seem necessary in order to make them more uniform and equitable.

The commission believes that when the new rate schedules have been in force for a sufficient length of time for their full effect to be shown in the receipts of the company, experience will show where the weak points are and what rates should be changed or readjusted in order to secure the greatest equality between the different classes of subscribers.

> WM. D. SOHIER, F. D. KEMP, Massachusetts Highway Commission.

APPENDIX A.

Abstracts of Annual Returns for the Year ending June 30, 1911, of Companies engaged in the Transmission of Intelligence by Electricity in Massachusetts.

LARGE TELEPHONE COMPANIES.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY.

Location of principal business office: 15 Dey Street, New York, N. Y.

Date of organization: March, 1885. Date of incorporation: March, 1885. State in which incorporated: New York.

Date of annual meeting: last Tuesday in March. Date when company began to give service: 1885.

GENERAL OFFICERS AND OFFICIAL TITLES.

Theodore N. Vail,				President.
Edward J. Hall, .				Vice-President.
Harry B. Thayer,				Vice-President.
Bernard E. Sunny,				Vice-President.
Union N. Bethell,		٠.		Vice-President.
William R. Driver,				Vice-President.
Nathan C. Kingsbury,				Vice-President.
Charles P. Ware, .				Vice-President.
Charles E. Hubbard,				Secretary.
William R. Driver,				Treasurer.
Charles G. Du Bois,				Comptroller.

DIRECTORS AND RESIDENCES.

Charles W. Amory,				Boston, Mass.
Thomas B. Bailey,				Boston, Mass.
George F. Baker,				New York, N. Y.
Francis Blake, .				Weston, Mass.
Harry H. Brigham,				New York, N.Y.
Alexander Cochrane	е, .			Boston, Mass.
T. Jefferson Coolidg	ge, Jr.,			Manchester, Mass.
W. Murray Crane,				Dalton, Mass.
Henry P. Davison,				New York, N. Y.
Rudolph Ellis, .				Bryn Mawr, Pa.

	Norman W. Harris,						Chicago, Ill.
	Henry L. Higginson,						Boston, Mass.
	Henry S. Howe, .						Boston, Mass.
	Charles E. Hubbard,			-			Boston, Mass.
	Lewis C. Ledyard,						New York, N. Y.
	John J. Mitchell, .						Chicago, Ill.
	William L. Putnam,						Manchester, Mass.
	Thomas Sanders, .						E. Brookfield, Vt.
	Sylvanus L. Schoonma	ker,					New York, N. Y.
	Eugene V. R. Thayer,						Lancaster, Mass.
	Theodore N. Vail,						Lyndon, Vt.
	Frank E. Warner,						Boston, Mass.
	John I. Waterbury,					•	Morristown, N. J.
	Moses Williams, .						Brookline, Mass.
	Robert Winsor, .						Weston, Mass.
	•						, 11455
			(CAPITA	LL.		
ap	ital authorized by chart	er.					. \$500,000,000 00
						-	. 4444,000,000 00

Capital authorized by charter,				\$500,000,000 00
Capital authorized by vote of company,				330,518,700 001
Capital paid in, 2,754,323 shares; par value,	\$100,	•		275,432,300 00

Whole number of stockholders, 41,128

DEBTS.

Bonds or notes issued, viz.: -

DATE.	When due.	How secured.	Rate of Interest (Per Cent.).	Amount.
July 1, 1899	July 1, 1929	Stocks and bonds deposited as col-	4	\$73,000,000 00 2
March 1, 1906	March 1, 1936	Not secured,	4	22,734,000 00
May 1, 1904	May 1, 1907	Not secured,	5	5,000 00
Jan. 1, 1907	Jan. 1, 1910	Not secured,	5	10,000 00
Feb. 23, 1910	Demand, .	Not secured,	5	5,250,000 00
Jan. 6, 1911	Demand, .	Not secured,	5	1,000,000 00
Feb. 1, 1911	Demand, .	Not secured,	6	570,000 00
Feb. 1, 1911	Demand, .	Not secured,	6	240,000 00
Feb. 1, 1911	Demand, .	Not secured,	5	1,000,000 00
Feb. 23, 1911	Demand, .	Not secured,	5	1,000,000 00
March 24, 1911	Demand, .	Not secured,	5	500,000 00
Dec. 28, 1910	Demand, .	Not secured,	6	3,000,000 00
Dec. 30, 1910	Demand, .	Not secured,	6	2,400,000 00
Jan. 30, 1911	Demand, .	Not secured,	6	1,105,000 00
Feb. 26, 1911	Demand, .	Not secured,	6	1,340,000 00
Sept. 15, 1909	Sept. 15, 1913	Not secured,	41/2	2,000,000 00

¹ Includes 550,864 shares to be issued under circular of June 20, 1911.

² Not including \$5,000,000 treasury bonds.

DATE.	When due.		Но	w sec	ured.		I	ate of teres (Per Cent.)	Amount.
Sept. 15, 1909	Sept. 15, 1914	Not sec	ured,					41/2	\$2,000,000 00
Sept. 15, 1909	Sept. 15, 1915	Not sec	ured,					41/2	2,000,000 00
Sept. 15, 1909	May 1, 1912	Not sec	ired,					4	10,500,000 00
Total amoun	t of bonds and r	notes,							\$129,654,000 00
Capital stock ins	tallments, .								3,025 00
Capital paid in,									275,432,300 00
				•	•	•	•	•	
Total hability	y for capital and	i ioans,	•	•		•	•	•	\$405,089,325 00
Condenser Telephone reve	enue, 1	of Ope	RATIN	G FO	R TH	Ite	AR (\) ems.		Totals. \$10,447,405 13
Current mainte	enance, .					1,4	55,69	9 01	
Depreciation,			•	•	•	1,2	60,00	0 00	
Total expe	enses, not incl	uding ta	xes,	٠					8,004,562 48
· Net earnir								-	\$2,442,842 63
Miscellaneous	<u> </u>	•	•	•	•	•	•	•	31,024,454 63
11130CHalleous	income, .	·	•	•	•	•	•	•	01,021,101 00
Total inco	me above exp	enses,							\$33,467,297 26
Interest charge									
Intèrest on f					•		56,80		
	doating debt,		• 1		•		00,10		
Taxes,		•		•	•	1,0	29,400	3 24	0.000.010.01
Total char	rges,	•	•	٠					6,386,316 07
Surplus of Dividends decl	net income a ared, 8 per ce				ounts				\$27,080,981 19 21,194,024 62
Surplus fo	r year ending	June 30	, 1911	,					\$5,886,956 57
	F	ARNINGS	(Wn	OLE	Syst	EM).			
Gross telephon						,			
Exchange se									
	s' stations,								\$11,307 4
Toll service:									
	ce,					\$7,6	04,07	1 92	
Toll service		0				19	96,99	6 46	
Attachme	nts and rental	.S, .							
Attachme Messenger	service, .							1 17	
Attachmer Messenger Leased lin	es,	· .	• •		•	2,6	$\frac{17}{34,85}$		
Attachmer Messenger Leased lin	service, .				· ·	2,6			10,436,097 6
Attachmer Messenger Leased lin Total to	es,					2,6			10,436,097 6

¹ Telephone revenue in Massachusetts, \$18,877.51.

						Iter	ns.		Totals.	
Amount brought forwe	ard.								\$10,447,405	11
	,						•	·	*10,111,100	
Miscellaneous income: —										
Real estate revenue,			٠.	•	•		7 03			
Dividends on stocks of					•	20,138,				
Interest on bonds and			•	•	•	3,367,				
Other miscellaneous inc Revenue from license				'		528,	363	45		
and privileges of conn										
engineering, and othe										
use of telephone pate	_					6,897	275	10		
Total miscellaneou				_					31,024,454	63
		· ·								
Total telephone re	venue	and	incon	ne,	•	•	•	•	\$41,471,859	74
	Even		~ /337	70. T	Stran					
Operation: —	EXP	ENSE	5 (W.	HOLE	DYS'	EM).				
General,									\$3,327,037	40
Commercial, .						·		i	350,105	
Traffic								·	1,392,534	
Rights, privileges and	ise of	prop	erty:			·		Ĭ	-,,	
Conduit, pole and ot						\$40,	177	48		
Use of other plant,						177	,066	49		
Total rights, privile	eges a	nd us	e of p	oroper	ty, -				217,243	97
Insurance						•			1,942	88
Total operation,									\$5,288,863	47
Total current maintenance		:		:		:	•	•	1,455,699	
Depreciation of plant,			·	·					1,260,000	
Total avnances not	inal	ding	towes						es 004 569	10
Total expenses not	mere	ung	taxes	, .	•	•	•	•	\$8,004,562	40
	GE	NERA	L BAI	LANCE	SHI	EET.				
	A	Lssets.								
Exchange construction,		•							\$71,252	10
Toll construction: —									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Toll lines,						\$41,809	,185	79		
Equipment,						1,646	,593	57		
Total toll construction	n,								43,455,779	36
Construction in process,					•				1,475,890	90
Real estate required in pa						•			2,078,404	
Investment real estate no	_		for o	perati	on,	•	•	•	507,359	
Office furniture and fixtu		•	•	•	•	•	٠		178,030	
Tools and vehicles, .	•	•	•	•	•	•	٠	•	139,865	93
Total plant account,									\$47,906,582	28
Telephones,		•							12,131,515	
Securities of other compa	nies.								359,867,657	
Current assets: —										
Cash on hand, .						\$26,994	,964	13		
Notes receivable, .						55,420				
Accounts receivable,						6,086				
Supplies on hand,	•			•		837	,937	28		
Total current assets,					•				89,339,467	
Discount,	٠	•	•	•	•	•	٠	•	1,845,000	00
Total debits, .									\$511,090,223	18

	Liabil	ities.			Items.	Totals.
Capital stock, common, .					\$275,432,300	
Capital stock, installments,	·	· ·		·	3,025	
Total capital stock, .				ij,		\$275,435,325 00
Bonded debt, less treasury b	onds. \$	5.000	0.000.	Ĭ.		. 95,734,000 00
Current liabilities:—		,,,,,	,,,,,,	·	· ·	
Loans and notes payable,					\$33,920,000	00
Audited vouchers and acc	ounts.				543,223	
Dividends not called for		ding	divide	end	J	
payable July 15, \$5,5					5,515,322	00
Matured interest coupon			(includ	ing	2,122,233	
due July 1, 1911, \$1,4			` .		1,501,265	00
Unearned revenue, .					2,933	
Total current liabilities						41,482,743 65
Accrued liabilities: —	,					,
Interest accrued but not o	lue.				\$500,518	62
Taxes accrued but not du					176,105	
Miscellaneous accrued lial					300,468	
Total accrued liabilities					,	977,093 04
Sinking and other special fu	•					0.0,000
Depreciation reserve, .						. 38,505,014 19
	·	·				
Total liabilities						\$452,134,175 88
Balance, surplus,						. 58,956,047 30
,						
Total credits						\$511,090,223 18
2002 020 020 020 0						*,,
P	ROFIT A	ND	Loss A	Acco	OUNT.	
					Dr.	Cr.
Balance from previous year,						. \$50,781,691 36
Gross earnings from operation						. 10,447,405 11
Miscellaneous income, .						. 7,425,638 55
Real estate revenue,						. 92,703 39
Income from securities, .						. 20,138,686 32
Interest on bonds and notes	, .					. 3,367,426 37
Premium on capital stock is	sued on	conv	version	of b	onds, .	. 5,258,344 69
Miscellaneous items of earni	ngs per	taini	ng to p	revi		. 29,054 68
Expenses, not including taxe					\$8,004,562	48
Interest on funded debt, .					3,956,800	65
Interest on floating debt, .					1,400,109	18
Taxes,					1,029,406	24
Taxes,					3,000,000	00
Depreciation reserve, . Dividends declared on stock	, .				21,194,024	62
Balance, surplus,					58,956,047	30
					\$97,540,950	47 \$97,540,950 47
PLANT ACCOUNTS (AD	DITIONS	AN	DED	UCTI	ONS DURING	THE YEAR).
	Addition	n o				Totale
	21441110					Totals.
Exchange construction, 1.	•	•	•	•		. \$3,197 20
Toll construction,	•	•	•	•		. 1,644,816 21
Construction in process, net						. 906,789 60
	, .	•	•	•		. 000,100 00
Amount caminal faces		•	•	•		
Amount carried forward,		•		•	•	. \$2,554,803 01

¹ Credit item.

-00	_									[= 0.0. =	•••
								Items.		Totals.	
Amount brough	ht for	ward,	٠.							\$2,554,803	01
Real estate require	d for	opera	tion,							31,544	41
Equipment, .										320,031	44
Tools and vehicles,			•					•		23,424	72
Total addition	s,									\$2,923,409	18
		1	Deduc	tions.							
Construction sold,	remo	ved or	aban	done	d		\$94	16,861	61		
Office furniture and								545			
Total deduction	ns,									947,406	64
Net additions	to pla	int acc	ount	for t	he yea	ır,				\$1,976,002	54
STATISTICAL I	ATTO D	MA TOTO	τ (Ωτ	ייימיי	ran T	Tarder	CROIT	NTD 4 NT	r	WDM DIVE	
STATISTICAL II	NFOR		•		ASSAC			ND AN	ט ט	UBMARINE	
Underground system	m:										
Conduit, feet,										108,7	778
Duct, feet,										730,0)12
Cable, feet, .										249,3	87
7771 6										40,760,9	
Submarine system:										.,	
Cable, feet, .										4,3	64
Territor and a second							•			158,4	
Overhead system: -										,	
Pole line, miles,										502.	55
Iron wire, miles,										199.	22
Copper wire, mile										15,538.	57

GENERAL REMARKS AND EXPLANATIONS.

"No exchange service is given by this company in the State of Massachusetts; its business in said State consists of the furnishing of lines and facilities to enable the transmission of intelligence, through the exchanges of other telephone companies, between the subscribers and patrons of one of such companies and those of another. The traffic carried on over its lines is almost entirely interstate."

AUTOMATIC TELEPHONE COMPANY OF NEW BEDFORD.

Location of principal business office: 43 William Street, New Bedford, Mass.

Date of organization: October, 1898. Date of incorporation: Nov. 12, 1898.

State in which incorporated: Massachusetts.

Date of annual meeting: second Wednesday in April.

Date when company began to give service: Dec. 1, 1900.

Service is given by this company over its own lines in Acushnet, Dartmouth, and New Bedford, Mass.

GENERAL OFFICERS AND OFFICIAL TITLES.

Francis T. Akin, .				President.
Lot B. Bates, .				Vice-President.
Frederic H. Taber,				Treasurer and Clerk.
Clarence H. James,				Assistant Treasurer.
William D Binlelow				Superintendent

3,832

DIRECTORS AND RESIDENCES.

Francis T. Akin,					New Bedford, Mass.
Lot B. Bates,					New Bedford, Mass.
Frederic Taber,					New Bedford, Mass.
Frederic H. Taber	۲,				New Bedford, Mass.
Edward D. Sherm	an,				New Bedford, Mass.
Frederick W. Bess	se,				New Bedford, Mass.
Thomas Hersom,					New Bedford, Mass.
William C. Hawes	3,				New Bedford, Mass.
Timothy J. Moria	rty,				New Bedford, Mass.

CAPITAL.

Capital authorized by charter,		\$100,000 00
Capital authorized by vote of company,		200,000 00
Capital paid in, 4,000 shares; par value, \$50,	•	200,000 00
Whole number of stockholders,		177
Number of stockholders resident in Massachusetts.		170

DEBTS.

Amount of stock held in Massachusetts (shares), . . .

Bonds or notes issued, viz.: -

DATE.	When due.	Hov	How_secured.					
Jan. 12, 1911	July 12, 1911	Note,					5	\$13,000 00
April 6, 1911	July 6, 1911	Note,					5	2,000 00
April 15, 1911	July 15, 1911	Note,					5	4,000 00
Feb. 4, 1911	Aug. 4, 1911	Note,					5	1,500 00
Feb. 8, 1911	Aug. 8, 1911	Note,					5	9,000 00
Feb. 24, 1911	Aug. 24, 1911	Note,					5	2,500 00
Jan. 6, 1911	Jan. 6, 1912	Note,					5½	10,000 00
April 11, 1911	April 11, 1912	Note,					5	6,000 00
May 4, 1911	May 1, 1931	First mortgage,	Bonds				5	11,000 00
May 5, 1911	May 1, 1931	First mortgage,					5	1,000 00
May 9, 1911	May 1, 1931	First mortgage,					5	4,000 00
May 25, 1911	May 1, 1931	First mortgage,				٠.	5	1,000 00
June 1, 1911	May 1, 1931	First mortgage,					5	4,000 00
Total amo	unt of bonds and	l notes, .						\$69,000 00
Capital paid in	ı,							200,000 00
Total liabi	lity for capital a	nd loans, .						\$269,000 00

Condensed	STATE	EMENT	r of	OPER.	ATING	FOI	R THE Y	ZEAR.		
							Items		Totals.	
Gross telephone revenue	٠, .					:	\$45,880	04		
Less rebates and discour	its,						1,650			
Telephone revenue,									\$44,229	53
Operation,							\$12,234	13		
Current maintenance,							5,883			
Depreciation,	•	•	•	•	·		5,000			
Total expenses, not	includ	$\lim_{t \to 0} t$	axes,		·				23,117	81
								_		
Net telephone earni		•	•		•				\$21,111	
Miscellaneous income,	•	•	٠	•	•	٠	•	•	603	82
Total income above	exnen	ses.							\$21,715	54
Interest charges and tax		,	•		•			·	0-2,020	•
Interest on floating de							\$2,904	70		
_	,,	•	•	•	•		3,041			
· · · · · · · · · · · · · · · · · · ·	•	•	•		•		5,041	30	F 040	0.0
Total charges, .	•	•	•	•	. –				5,946	20
Net divisible incom Dividends: —	e,					=			\$15,769	28
			.4 a al-	6.07			\$6,000	00		
Dividends declared or	_				٠					
Dividends declared on				1%,	•		7,000	00	10.000	00
Total dividends dec	lared,	•	•	•					13,000	00
Surplus for year end	ding Ju	une 30	0, 19	11,	٠	٠	•	•	\$2,769	28
~			EAR	NINGS.						
Gross telephone revenue	:-									
Exchange service: —										
Subscribers' stations	S, .	•	•	•			•	•	\$45,023	06
Toll service:—										
Toll service, .	•	•	٠	•	•	•	•	•	856	98
70 (.1									@4 F 000	0.4
Total gross telepl		evenu	.е,	•	•	•	•	•	\$45,880	
Less rebates and discoun	ıts,	•	٠	•	•	•	•	•	1,650	91
Talanhana									\$44,229	52
Telephone revenu		•	•	•	•		•	•	\$\psi \psi \psi \psi \psi \psi \psi \psi	00
Miscellaneous income: — Real estate revenue,									603	82
itear estate revenue,	٠	•	•	•	•	•	•		005	
Total telephone r	evenue	e and	inco	me,				•	\$44,833	35
			Evn	ENSES.						
Operation: —			MAP.	DASES.						
General: —										
Executive departme	n t						\$1,192	00		
Accounting departm		•	•	•	•		1,942			
		•	•		•		374			
Financial departmen		•	•	•						
Legal department,							1,553	UU		
	•	•							@# 0.00	F 4
Total general,	·			·				_	\$5,062	54

					Items	•	Totals.	
Amount brought forward,	•	•	•	•		•	\$5,062	54
On and the Control								
Operation — Concluded. Commercial: —								
Advertising					\$432	nα		
Canvassing,	•	•		•	1,002			
Directory,	•	•	•	•	1,002			
Revenue collecting, .	•	•	•	•	1.560			
Total commercial,	•	•	•	_	1,000		3,140	30
Traffic:—	•	•	•	• –			5,140	00
Traffic supervision, .					\$962	00		
Service inspection, .	·	Ċ		•	1,326			
Operators' wages, .	•		•	•	390			
Operating clerical wages,		·		•	360			
Other operating expenses,					102			
Total traffic,		ij		· .			3,149	31
Rights, privileges and use of		ertv:		·			0,110	0.1
Conduit, pole and other s							205	01
Insurance,						i.	685	
	Ť	·	·	Ť	•	Ť		
m . 1							@#O OD4	
Total operation, .	•	•	•	•		•	\$12,234	13
Maintenance: —								
Repairs: —				*	00.40*	0.4		
Aërial plant,	:	•	•	•	\$2,481			
Underground plant, .		•	•	•	46			
Central office equipment,	•	•	•	•	2,095			
Subscribers' equipment,	•	•	•	•	1,259	76	£ 000	00
Total repairs, .	•	•	•				5,883	
Depreciation of plant, .	•	•	•	•	•	•	5,000	00
Total expenses, not incl	uding	taxe	s, .	•		•	\$23,117	81
GE	NERA	L BA	LANCE	SHE	ET.			
Assets.								
Exchange construction: —								
Overhead lines,					\$93,560	82		
Underground lines, .					67,086			
Central office equipment,					48,430			
Subscribers' station equipme	ent,				56,166			
Total exchange constructi	on an	d equ	ıipmer	ıt, –			\$265,243	96
Toll construction: —								
Overhead lines,							3,746	80
Real estate required for operat	ion,						15,005	00
						_		
Total plant account, .							\$283,995	76
Contracts and licenses, .	•	•	•	•	• •	•	15,000	
Current assets: —	•					•	10,000	30
Cash on hand,					\$1,466	31		
Accounts receivable, .	•				10,562			
Total current assets, .					10,002		12,028	45
Total debits							0011 004	01
Total debits,	•	•		•		•	\$311,024	21

$Liabilities. \ \ $					Items.		Totals.	
Capital stock, common, .					\$100,000	00		
Capital stock, preferred, .					100,000	00		
Total capital stock, .							\$200,000	00
Bonded debt,							21,000	
Current liabilities: —							,,,,,,	
Loans and notes payable,					\$48,000	00		
Unearned subscribers' rental					7,547			
Total current liabilities.		Ţ,			.,021		55,547	36
Sinking and other special fund				•			00,01.	00
Depreciation,							10,000	00
	•		•	•	•		10,000	
Total liabilities.							\$286,547	36
Balance, surplus,	•	•	•	•	•	•	24,476	
Dalance, surprus,	•	•	•	•		•	24,470	00
Total credits,							6211 004	01
rotar credits,	•	1	•				\$311,024	21
Pro	FIT .	AND I	loss .	Accou	NT.			
					Dr.		Cr.	
Balance from previous year,							\$26,808	57
Gross earnings from operation,							45,880	04
Real estate revenue,							603	82
Appreciation of real estate,							2,000	00
Expenses, not including taxes,					\$23,117	81		
Rebates and discounts, .					1,650			
Interest on floating debt, .					2,904			
Taxes,	i				3,041			
Commission on sale of \$21,000	issu	e of b	onds.		2,101			
Diminution of license account,		0 01 0	onac,	•	5,000			
Dividends declared on stock,		•	•	•	13,000			
Balance, surplus,	•	•	•	•	24,476			
Dalance, surpius,	•	•	•		24,410	00		
					\$75,292	43	\$75,292	43
					0.0,202	10	Ψ.0,202	10
PLANT ACCOUNTS (ADDI	TION	S AND	Der	UCTIO	NS DURING	THE	YEAR).	
Addit	ions							
					Items	,	Totals.	
Exchange construction: —							Totals.	
Overhead lines,	•	•	•	•	\$11,591			
Underground lines, Central office equipment, Subscribers' station equipme	•	•		•	2,565			
Central office equipment,	•	•	•	•	3,545			
Subscribers' station equipme	nt,		. •	•	7,057	47	004 570	00
Total exchange constructi						_	\$24,759	
Real estate required for operat	ion,	٠	•	•		•	2,005	00
m							200 704	-
Total additions to plant ac	ccour	at for	the y	ear,		•	\$26,764	32
ST	ATIST	TCAL	INFO	RMATIC	N.			
	.1101	LUAL						
Number of subscribers, .			•	•			1,8	
Number of instruments, .							2,0	
Number of operators, .								
								1
Number of subscribers on party	y line	es,					_	31
Number of subscribers on party Number of subscribers on singl	y line e line	es,	•	•		•	5 1,3	31

239

Underground system	n: –	_				
Conduit, feet,						18,480
Duct, feet,						136,030
Cable, feet, .						61,350
Wire, feet, .						9,864,100
Overhead system: -	_					
Pole line, miles,						38
Iron wire, miles,						403
Copper wire, mile	s,					137

CAPE COD TELEPHONE COMPANY.

Location of principal business office: Hyannis, Mass.

Date of organization: Feb. 5, 1903. Date of incorporation: Feb. 10, 1903.

Date in which incorporated: Massachusetts.

Date of annual meeting: first week day in September. Date when company began to give service: April 23, 1903.

Service is given by this company over its own lines in the town of Barnstable.

GENERAL OFFICERS AND OFFICIAL TITLES.

Frank Percy Goss, .			President.
Alfred Willard Guyer,			Vice-President.
Arthur Gordon Guyer,			Clerk and Treasurer.

DIRECTORS AND RESIDENCES.

Frank Percy Goss, .			Hyannis, Mass.
Alfred Willard Guyer,			Hanover, N. H.
Arthur Gordon Guyer,			Hyannis, Mass.

CAPITAL.

Capital authorized by charter,		\$1,000 00
Capital authorized by vote of company,		5,000 00
Capital paid in, 240 shares; par value, \$25,		6,000 00
Whole number of stockholders,		13
Number of stockholders resident in Massachusetts,		12

DEBTS.

Bonds or notes issued, viz.: -

Amount of stock held in Massachusetts (shares),

DATE.	When due.	H	ow se	ecured	l.		Rate of Interest (Per Cent.).	Amount.
Feb. 15, 1911	Aug. 15, 1911	Not secured,					,51/2	\$200 00
June 28, 1911	Dec. 28, 1911	Not secured,			•		6	200 00
Total amou	unt of bonds and	l notes,				."		\$400 00
Capital paid in	1,							6,000 00
Total liabi	lity for capital a	nd loans, .						\$6,400 00

Condensed S	STATE	EMENT	r of (Oper.	ATING			EAR.	
m 1 - 1						1	tems.		Totals.
Telephone revenue, .	•	•	•	•	•	•			\$2,064 16
Operation,	•	•	•	•	•		\$1,127		
Current maintenance,			•	•	•		355	35	
Total expenses, not i	nciud	nng t	axes,	•				_	1,482 91
Total income above	ovnon	905							\$581 25
Interest on floating debt,		•	•	•	•	•	\$23	00	Φυσι 20
Taxes,	•	•	•	•	•		105		
Total charges, .	•	•	•	•	•		100		128 60
100ax onargos, .	•	•	•	•	•				128 00
Surplus of net incom	e abo	ve ch	arges						\$452 65
Dividends declared, 6 per									360 00
			. ,						
Surplus for year endi	ing Ju	ine 3	0, 191	1,					\$92 65
			T. D.	******					
P 1			LARI	NINGS	•				
Exchange service, .	•	•	•	•	•	•	•	•	\$2,064 16
			EXPE	ENSES					
Operation:—									
General: —									
Executive department			•	•			\$500		
Financial departmen	t,	•	•	•			18	62	
Total general,	•	•	•	•					\$518 62
Commercial: —									
Directory, .	•	•	•	•	•	•	•	•	22 50
Traffic: —									
Operators' wages,	٠	•	•	•	•	•	•	•	586 44
m ()									01 107 50
Total operation,	•	•	•	•	•	•	•	•	\$1,127 56
Maintenance: —									
Repairs: —									055 05
Aërial plant, .	•	•	•	•	•	•	•	•	355 35
W + 1		1 . 1*							21 400 01
Total expenses, no	ot inc	luain,	g taxe	es,	•	•	•	. •	\$1,482 91
								•	
	Gı	ENER	AL BA	LANC	E SHE	EET.			
A	ssets.								
Exchange construction: -									
Overhead lines, .							\$5,000	00	
Central office equipme							200	00	
Subscribers' station eq		ent,					1,600	00	
Total exchange cons			nd eq	uipme	ent, -				\$6,800 00
Current assets: —									
Cash on hand, .							\$50	01	
Supplies on hand,							100	00	
Total current assets,									150 01
								_	
Total debits, .									\$6,950 01

Li	abiliti	es.							Totals.
Capital stock, common,									\$6,000 00
Current liabilities: —									
Loans and notes payab	le,								400 00
								_	
Total liabilities,									\$6,400 00
Balance, surplus, .									550 01
								-	
Total credits, .									\$6,950 01
	_			_					
	Pro	FIT	AND	Loss	Acco	OUNT.	Dr.		Cr.
Balance from previous ye				,			Dr.		\$457 36
Gross earnings from oper		•	•	•	•	•	•	•	2,064 16
Expenses, not including t			•	•	•	•	\$1,482	91	2,004 10
Interest on floating debt,			•	•	•		23		
		•	•	•	•		105	-	
Taxes,		•	•	•	•				
			•	•	•		360		
Balance, surplus, .	٠	•	•	•	•		550	01	
							Ø0 F01	F 0	#0 F01 F0
							\$2,521	52	\$2,521 52
	ST	ATIS	STICAL	INF	ORMAT	TION.			
Number of subscribers,									205
Number of instruments,									209
Number of operators,									4
Number of pay stations,									1
Number of subscribers of	n part	y li	nes,						203
Number of subscribers of	n sing	le li	nes,						2
Overhead system: —									
Pole line, miles, .	٠.								35
Iron wire, miles, .									216

FALL RIVER AUTOMATIC TELEPHONE COMPANY.

Location of principal business office: 215 Bank Street, Fall River, Mass.

Date of organization: Dec. 7, 1899. Date of incorporation: Dec. 8, 1899.

State in which incorporated: Massachusetts.

Date of annual meeting: second Monday in April.

Date when company began to give service: Oct. 1, 1901.

Service is given by this company over its own lines in the city of Fall River.

GENERAL OFFICERS AND OFFICIAL TITLES.

Edward B. Jennings, . President. Bradford D. Davol, . Treasurer.

Assistant Treasurer and Manager. Superintendent. Clark Chase, Jr., . . .

Arthur A. Noel,

DIRECTORS AND RESIDENCES.

Edward B. Jennings, .					Fall River, Mass.	
Edmund W. Wakelee,					Englewood, N. J.	
John T. Swift,					Fall River, Mass.	
Joseph Watters, .					Fall River, Mass.	
Martin Feeney, .					Fall River, Mass.	
Bradford D. Davol, .					Fall River, Mass.	
Danforth H. Hathaway					Fall River, Mass.	
		Capi	TAL.			
ital authorized by chart					\$135,0	

Capital authorized by charter,	•	•	•	4100,000 00
Capital authorized by vote of company,				135,000 00
Capital paid in, 2,700 shares; par value, \$50, .				135,000 00
Whole number of stockholders,				67
Number of stockholders resident in Massachusetts,				65
Amount of stock held in Massachusetts (shares),				1,924

DEBTS.

Bonds or notes issued, viz.: —

DATE.	Whe	n due.							Rate of Interest (Per Cent.).		Amount.	
June 1, 1903	June	1, 1923	Mortgage franchi					licer	ıse,	5		\$65,000 (
Total amou	int of b	onds and	l notes, .									\$65,000 (
Capital paid in	ι, .											135,000 (
Total liabil	lity for	capital a	nd loans,									\$200,000 (

CONDENSED STATEMENT OF OPERATING FOR THE YEAR.

						Items	3.	Totals.
Gross telephone revenue,	,							\$29,053 46
Operation,						\$9,310	5 3	
Current maintenance,						10,025	33	
Depreciation,					•	468	93	
Total expenses, not	includ	ling t	taxes,	•	. –	 	_	19,804 79
Net telephone earni	ngs.							\$9,248 67
Miscellaneous income,					•			70 71
Total income above	expen	ses.						\$9,319 38
Interest on funded debt,						\$3,250	00	
Taxes,						1,250	35	
Total charges, .		•	•					4,500 35
Surplus for year end	ing Ju	ine 3	0, 191	1,				\$4,819 03

		EARNI	NGS						
Gross telephone revenue:—						Items	١.	Totals.	
Exchange service:									
Subscribers' stations,					\$5	28,138	41		
Pay stations,						87			
Attachments and rentals,						90	00		
Total exchange service,			Ĭ					\$28,315	82
Toll service,			i					737	
	•	·	•	•	·	·			
Telephone revenue,								\$29,053	46
Miscellaneous income: —									
Interest on bank deposits,				•,		•.		70	71
Total telephone revenue	and	income	€,					\$29,124	17
•									
Operation:		EXPEN	ISES	•					
General: —									
						£1 267	10		
Executive department,	•	•	•	•	,	\$1,367			
Accounting department,	•	•	•	•		1,131			
Legal department, .	•	•	•	•		1,651	00	04.150	0.5
Total general, .	•	•	٠					\$4,150	35
Commercial: —									
Advertising,	٠	•	•	•		\$193			
Canvassing,	•	•	•	•		1,004			
Directory,	•	•	•	•		135			
Revenue collecting, .	•	•	٠	•		934			
Pay-station commissions,	•		•	•			95		
Uncollectible accounts,	•	•	•	•		405	07		
Total commercial, .	•		•					2,680	66
Traffic: —									
Service inspection, .						\$364			
Operators' wages, .						930			
Light, power and heat.						454	67		
Total traffic,								1,749	59
Rights, privileges and use of	pro	perty: -							
Rental of instruments,						\$99	00		
Conduit, pole and other sp	ace.					75	28		
Total rights, privileges a	nd u	se of pr	ope	rty, –				174	28
Insurance,		•	•	•		•		5 55	65
							-		
Total operation, .		•				•		\$9 ,310	53
Maintenance: —									
Repairs: —									
Supervision,						\$1,081	00		
Aërial plant,						5,241	78		
Central office equipment,						229	91		
Subscribers' equipment,						3,472	64		
Total repairs, .								10,025	33
Depreciation of plant, .								468	93
							-		
Total expenses, not incl	udin	g taxes,						\$19,804	79

\$54,186 45 \$54,186 45

GENERAL BALANCE SHEET.

Ass	ets.						Items		Totals.	
Exchange construction: -	_									
Overhead lines, .							\$59,268	24		
Underground lines,	•	•	·	•	•		72,328			
Central office equipmen	•	•	•	•	•		25,000			
Subscribers' station equ			•	•	•					
					4		60,755	00	2017 271	01
Total exchange const	ructio	on an	a eq	шрше	ent, –				\$217,351	91
Toll construction: —									0 740	0.0
Overhead lines, .	•	•	•	•	•	•	•	•	3,746	
Real estate required for o	perati	ion,	•	•	•	•	•	•	11,166	
Tools and vehicles, .	•	•	•	•	•	•	•	•	280	00
								_		
Total plant account,									\$232,545	54
Contracts and licenses.	•	•	•	•	•	•	•	•	10,000	
Current assets:—	•	•	•	•	•	•	•	•	10,000	00
Cash on hand							@F 040	0.0		
	•	•	•	•	•		\$5,246			
Accounts receivable,	•	•	•	•	•		3,864	95	0.440	
Total current assets,	•	•	•	•	• -		************		9,110	98
								_		
Total debits, .									\$251,656	52
2002 400200,	•	•		•	•	•	-	•	\$202,000	~
Lie	abilitie	es.								
Capital stock, common,									\$135,000	00
Bonded debt,									65,000	00
Current liabilities: —										
Audited vouchers and	accom	nts.							554	51
Accrued liabilities: —		,	·	Ť		Ť		Ť	302	-
Interest accrued but no	ot due						\$270	83		
Taxes accrued but not		,	•	•	•		945			
		•	•	•	•		940	91	1 016	G A
Total accrued liabilit		•	•	•					1,216	04
Sinking and other special										
Reserve for depreciation	n,	•	•	•	10	•	•	•	20,004	06
								-		
Total liabilities,									\$221,775	21
Balance, surplus, .	•	•	•	·	•	·	•	•	29,881	
Daiance, surpius, .	•	•-	•	•	•	•	•	•	20,001	01
								_		
Total credits, .			•						\$251,656	52
	Pro	FIT .	AND	Loss	Acco	UNT.				
							Dr.		Cr.	
Balance from previous ye		•	•	•	•	•	•	•	\$25,062	
Gross earnings from oper	ation,								29,053	46
Miscellaneous income: —										
Interest on bank depos	sit,								70	71
Expenses, not including t	axes,						\$19,804	79		
Interest on funded debt,							3,250	00		
Taxes,							1,250	35		
Balance, surplus, .							29,881			
, , , , , , , , , , , , , , , , , , , ,										
									-	

PLANT ACCOUNTS (ADDITIONS AND DEDUCTIONS DURING THE YEAR	PLANT	ACCOUNTS	(Additions	AND	DEDUCTIONS	DURING	THE	YEAR
--	-------	----------	------------	-----	------------	--------	-----	------

Add	Totals.											
Subscribers' station equ	ipment	9							\$7 91 83			
· Statistical Information.												
Number of subscribers,									1,043			
Number of instruments	, .								1,177			
Number of operators,									2			
Number of pay stations	3, .								10			
Number of subscribers	on part	y lin	es,						176			
Number of subscribers	on sing	le lin	es,						867			
Underground system: -	-											
Conduit, feet, .									18,691.2			
Duct, feet,									101,798.4			
Cable, feet,									56,971.2			
Wire, feet,									10,841,476.8			
Overhead system: —												
Pole line, miles, .									62.07			
Iron wire, miles, .									409.72			
Copper wire, miles,				•					1,102.68			

HEATH TELEPHONE COMPANY.

Location of principal business office: Shelburne Falls, Mass.

Date of organization: Feb. 14, 1898. Date of incorporation: Feb. 14, 1898.

State in which incorporated: Massachusetts. Date of annual meeting: last Monday in October.

Date when company began to give service: Feb. 14, 1898.

Service is given by this company over its own lines in the following towns:—

Ashfield, Conway, Monroe,
Buckland, Hawley, Rowe,
Charlemont, Heath, Shelburne.
Colrain, Leyden,

This company also gives service in the State of Vermont.

GENERAL OFFICERS AND OFFICIAL TITLES.

Walter E. Kinsman,			President and General Manager.
Fred W. Story, .			Vice-President.
Herbert Newell,			Clerk and Treasurer.

DIRECTORS AND RESIDENCES.

Walter E. Kinsman,					Shelburne Falls, Mass.
Herbert Newell.					Shelburne Falls, Mass.
Fred W. Story					Boston, Mass.
Jasper N. Keller,					Boston, Mass.
Carl T. Keller, .					Boston, Mass.
Matt B. Jones.					Boston, Mass.
		•	•	•	200001, 1114000.

Fred H. Smith,							Ashfie	ld.	Mass	
William A. Barber,			i			i	Leyde			
Alexander J. Patterson					i	Ċ	Conw			
Charles L. Donelson.	_,				·		Colrai			
Charles S. Goodnow,				•	•				am, Vt.	
onaros or dodanon,	•	•	•	•	•	•	** 11101	ugu	aiii, V 0.	
•			CAPI	TAL.						
Capital authorized by char	rter,								\$1,020	00
Capital authorized by vote									96,000	
Capital paid in, 3,072 shar									92,160	
****	,									
Whole number of stockhole				;		٠	•	•		337
Number of stockholders re						٠	•	•		306
Amount of stock held in M							m 1.	÷	2,8	397
Amount of stock held by I			and 1	_	one a	ına	Telegra	pn		100
Company (shares), .	•	•	•	•	•	•	•	•	1,1	196
		_					(77			
Condensed Statemen	T OF	OPE	RATIN	G FOF	THE	2 Y				
							Items.		Total	
Telephone revenue, 1 .		•	•	•	•	•		•	\$28,960	08
Operation,		•	•	•	•	•	\$12,128			
		•	•	•	•		5,019			
Depreciation,		٠,	•	•	•		5,760	00	00.00=	
Total expenses, not in	cludi	ng ta	xes,	•	. —				22,907	24
Net telephone earning	s.								\$6,052	84
Miscellaneous income, .										20
,								_		
Total income above ex	pens	es,							\$6,077	04
Interest charges and taxes:	-									
Interest on floating debt,	,						\$9	26		
Taxes,							1,519	12		
Total charges,					. —				1,528	38
								-		_
Surplus of net income			rges,	•	•	٠	•	٠	\$4,548	
Total dividends declared,		•	•	•	•	٠	•	٠	3,685	00
Complete for the second second	T	- 20	1011					_	2000	0.0
Surplus for year ending	g Jun	ie su,	1911,	•	•	٠	•	•	\$863	00
	EARN	TNGS	(Wn	ole S	VSTE	M)				
Gross telephone revenue:		11105	(11 11		10111	.,,,				
Exchange service: —										
Subscribers' stations, .						9	21,163	61		
Pay stations,		•	•	•	•	ų.	349			
Total exchange servi		•	•	•	·		010		\$21,513	01
Toll service,	,	•	•	•	•				7,447	
202 501 1200, 1								_		
Total gross telephon	e rev	enue	,						\$28,960	08
Other miscellaneous inco									24	20
								-		
Total telephone reve	enue	and i	ncome	e ,	•	•	•	٠	\$28,984	28

¹ Telephone revenue in Massachusetts, \$22,500.72.

	Exp	ENSE	s (W	HOLE	Syst	ем).				
Operation: —							Items	١.	Totals.	
General: —										
Executive, accounting	ng ai	nd fir	nancia	ıl dep	art-					
ments, .							\$2,131	61		
Legal department,							5	48		
Total general,									\$2,137	09
Commercial: —										
Canvassing, .							\$92	5 0		
Directory, .							16	54		
Revenue accounting,							813	35		
Revenue collecting,							676	35		
Total commercial,									1,598	74
Traffic: —										
Traffic supervision as	nd se	rvice	inspe	ction,			\$1,200	50		
Operators' wages,							6,125	42		
Central office rent,							648	88		
Other operating expe	nses,						46	02		
Total traffic, .									8,020	82
Rights, privileges and u	use of	fpro	perty:	-						
Rental of instrument	s,						\$168	94		
Conduit, pole and ot	her sı	pace,					202	41		
Total rights, privile	eges a	and u	se of 1	proper	rty, -				371	35
Total operation,									\$12,128	00
Maintenance: —										
Repairs: —										
Aërial plant, .		•	•	•	•		\$2,453			
Central office equipm		•	•	•	•		514			
Subscribers' equipme	nt,	•	•	•	•		2,051	33		
Total repairs,	•	•	•	•					5,019	
Depreciation of plant,	•	•	٠	٠	•	•	•	•	5,760	00
Total expenses, not	t incl	uding	g taxe	s,					\$22,907	24
	GE	NERA	l Bai	LANCE	SHE	ET.				
Ass	ets.									
Exchange construction,									\$97,784	91
Office furniture and fixtur	es,								517	38
Tools and vehicles, .	•								175	61
m . 1 1								_	000 477	
Total plant account,	•	•	•	•	•	•	•	•	\$98,477	90
Current assets:—							00.045	1.0		
Cash on hand,	•		•	•	•		\$2,845			
Accounts receivable,	•	•	•	•	•		4,113			
Supplies on hand,	•	•		•	•		1,356			
Heath telephone stock,		•					480	00		-
Total current assets,	•	٠	•	•	. –				8,795	26

Liabilitie	28.					Items		Totals.	
Capital stock, common, .						rtems	•	\$92,160	00
Current liabilities:—	•	•	•	•	• •	•	•	Φ92,100	UU
Audited vouchers and accou	ints.					\$268	76		
Salaries and wages unpaid,		·		· ·			50		
Total current liabilities,	·							366	26
Sinking and other special fund	ls: —			•				000	
Replacement reserve, .								8,776	72
							_		
Total liabilities								¢101 200	00
Total liabilities, .	•	•	•	•	•	•	•	\$101,302	
Balance, surplus,	•	•	•	•	•	•	•	5,970	18
							_		_
Total credits,	•	٠	•	•	•	•	•	\$107,273	16
Pre	OFIT A	AND I	Loss A	Accor	JNT.				
						Dr.		Cr.	·
Balance from previous year,								\$5,178	89
Gross earnings from operation	, .							28,960	08
4 per cent. dividend on stock	of H	eath	Telep	hone	Comp	pany,	par		
value, \$480,								19	20
Miscellaneous income, .								5	00
Expenses, not including taxes	, .				\$5	22,907	24		
Interest on floating debt, .						9	26		
Taxes,						1,519	12		
For depreciation: —									
Office furniture, tools and to	eams,					72	37		
Dividends declared on stock:									
4 per cent. due Aug. 10, 19	10,					3,685	00		
Balance, surplus,						5,970	18		
				-					_
					\$3	34,163	17	\$34,163	17
PLANT ACCOUNTS (ADD	ITION	S ANI	DEI	UCTI	ONS D	URING	THE	YEAR).	
Additions.								Total	a
								\$1,527	
Exchange construction, . Office furniture and fixtures,	•	•	•	•	•	•	•		43
Tools and vehicles,	•	•	•	•	•	•	•		70
Tools and venicles,	•	•	•	•	•	•	•	J9	70
Total additions, .							_	\$1,678	90
Total additions,	•	•	•	•	•	•	•	\$1,070	50
Deductions									
	•							50	27
Tools, teams, and furniture fi	xtures	, .	•	•		•	•	72	37
							_		_
Net additions to plant ac	count	for t	he yea	r,				\$1,606	53

STATISTICAL INFORMATION.

		In Massachusetts.	Outside Massachusetts.	Whole System
Number of subscribers,		973	285	1,258
Number of instruments,		1,024	311	1,335
Number of operators,		16	6	. 22
Number of pay stations,		25	6	31
Number of subscribers on party lines,		964	281	1,245
Number of subscribers on single lines,		9	4	13
Overhead system: —				
Pole line, miles,		283.5	115.25	398.75
Iron wire, miles,		1,355	403	1,758
Copper wire, miles,		78.5	5.5	84

MASSACHUSETTS TELEPHONE AND TELEGRAPH COMPANY.

Location of principal business office: 185 Franklin Street, Boston, Mass.

Date of organization: about Nov. 15, 1898. Date of incorporation: about Nov. 15, 1898. State in which incorporated: Massachusetts.

Date of annual meeting: first Monday in November. Date when company began to give service: 1899.

Service is given by this company over its own lines in Boston, Stoughton and Taunton.

GENERAL OFFICERS AND OFFICIAL TITLES.

DIRECTORS AND RESIDENCES.

A. Norton Taylor,				Newark, N. J.
Fred Jones, .				Jersey City, N. J.
William Shirden,				New York, N. Y.
Joseph Q. Taylor,				Taunton, Mass.
Dudley G. Browning	5,			Newark, N. J.

CAPITAL.

Capital authorized by charter,				\$10,000 00
Capital authorized by vote of company, .				10,000 00
Capital paid in, 100 shares; par value, \$100,	•	•		10,000 00
Whole number of stockholders,				6
37 1 0 1 1 1 1 1 1 1 7 7 1				

Whole number of stockholders,	6
Number of stockholders resident in Massachusetts,	1
Amount of stock held in Massachusetts (share),	1
Amount of stock held by parent telephone company (shares),	80

DEBTS.

Bonds or notes issued, viz.: —

DATE.	When due.	How secured.	Rate of Interest (Per Cent.).	Amount.
May 4, 1906	On demand, .	Bonds (when issued),	5	\$3,430 00
June 6, 1906	On demand, .	Bonds (when issued),	5 5	1,750 00 1,385 00
July 8, 1906 Aug. 4, 1906	On demand, .	Bonds (when issued), Bonds (when issued),	5	1,385 00
Aug. 4, 1906 Sept. 7, 1906	On demand, . On demand, .	Bonds (when issued),	5	1,675 00
Oct. 6, 1906	On demand, .	Bonds (when issued),	5	1,638 00
Nov. 3, 1906	On demand, .	Bonds (when issued),	5	4,500 00
Dec. 10, 1906	On demand, .	Bonds (when issued),	5	1,337 79 4,000 00
Jan. 3, 1907 Feb. 6, 1907	On demand, .	Bonds (when issued), Bonds (when issued),	5	2,100 00
March 7, 1907	On demand, .	Bonds (when issued),	5	2,100 00 1,600 00 1,500 00 1,500 00
April 4, 1907	On demand, .	Bonds (when issued),	5	1,500 00
May 0, 1907	On demand, .	Bonds (when issued),	5	1,500 00 1,800 00
June 5, 1907 July 6, 1907	On demand, . On demand, .	Bonds (when issued), Bonds (when issued),	5	1,500 00
Aug. 8, 1907	On demand,	Bonds (when issued),	5	1,600 00
Sept. 4, 1907	On demand, .	Bonds (when issued),	5	1,600 00
Oct. 5, 1907	On demand, .	Bonds (when issued),	5	5,000 00
Nov. 4, 1907 Dec. 16, 1907	On demand, .	Bonds (when issued), Bonds (when issued),	2	1,600 0
Inn 10 1008	On demand, .	Bonds (when issued),	5	1,500 0 3,500 0 1,600 0 1,600 0
Feb. 8, 1908	On demand, .	Bonds (when issued), Bonds (when issued),	5	1,600 0
Feb. 8, 1908 March 4, 1908 April 4, 1908 May 7, 1908	On demand, .	Bonds (when issued),	5	1,600 0
April 4, 1908	On demand, .	Bonds (when issued),	5	1,600 0 1,500 0
June 1, 1908	On demand, . On demand, .	Bonds (when issued),	5	1,800 0
July 7, 1908	On demand,	Bonds (when issued),	5	1,600 0
Aug. 7, 1908	On demand, .	Bonds (when issued),	5	1,800 0
Sept. 12, 1908	On demand, .	Bonds (when issued),	5	1,600 0
Oct. 26, 1908	On demand, .	Bonds (when issued),	5	3,500 0
Oct. 10, 1908 Nov. 7, 1908	On demand, . On demand, .	Bonds (when issued), Bonds (when issued),	5	1,600 0 1,600 0
Dec. 5, 1908	On demand, .	Bonds (when issued),	5	1,600 0
Jan. 0, 1909	On demand, .	Bonds (when issued),	5	1,600 0
Feb. 9, 1909	On demand, .	Bonds (when issued),	5	1,600 0 1,600 0
March 1, 1909 April 1, 1909	On demand, . On demand, .	Bonds (when issued),	5	1,600 0
May 1, 1909	On demand, .	Bonds (when issued),	5	1,600 0
June 1, 1909	On demand, .	Bonds (when issued),	5	1,600 0
July 1, 1909	On demand, .	Bonds (when issued),	5	1,600 0
Aug. 1, 1909 Sept. 1, 1909	On demand, .	Bonds (when issued), Bonds (when issued),	5	1,600 0 1,600 0
Oct. 1, 1909	On demand,	Bonds (when issued),	5	1,600 0
Nov. 1, 1909	On demand, .	Bonds (when issued),	5	1,600 0
Dec. 1, 1909	On demand, .	Bonds (when issued), Bonds (when issued),	5	1,600 0
Jan. 1, 1910 Feb. 1, 1910	On demand, .	Bonds (when issued),	5	1,600 0 1,600 0
March 1, 1910	On demand, .	Bonds (when issued),	5	1,600 0
April 1, 1910	On demand	Bonds (when issued),	5	1 600 0
May 1, 1910	On demand, .	Bonds (when issued),	5	1,600 0
June 1, 1910	On demand,	Bonds (when issued),	5	1,600 0 1,600 0
July 1, 1910 Aug. 1, 1910	On demand, . On demand, .	Bonds (when issued), Bonds (when issued),	5	1,600 0
Sept. 1, 1910	On demand, .	Bonds (when issued),	5	1,600 0
Oct. 1, 1910	On demand, .	Bonds (when issued),	5	1,600 0
Nov. 1, 1910	On demand, .	Bonds (when issued),	5	1,600 0
Jan. 1, 1911 Feb. 1, 1911	On demand, . On demand, .	Bonds (when issued),	555555555555555555555555555555555555555	1,600 0 1,600 0
March 1, 1911	On demand, .	Bonds (when issued),	5	1.600 0
April 1, 1911	On demand, .	Bonds (when issued),	5	1,600 0
May 1, 1911	On demand, .	Bonds (when issued),	5	1,600 0
June 1, 1911	On demand, .	Bonds (when issued),	5	1,600 0
	unt of bonds and	l notes,		\$113,717 7 10,000 0
Capital paid i	ц,			10,000 0

Condensed Star	TEME	T OF	OPER	ATINO	FO:	R THE	YEAR	
						Item	s.	Totals.
Telephone revenue,								\$4,795 43
Operation,						\$7,814		
Current maintenance, .			•			7,472	41	
Total expenses not include	ding t	axes,						15,287 22
Net telephone deficit,							_	\$10,491 79
Miscellaneous deficit, .	:	•	•		·		·	6,970 88
							_	
Total deficit above incor	ne,	•						\$17,462 67
Taxes,	•	•	٠	•	•	•	٠	182 99
Deficit for year ending Ju	une 30	0, 1911						\$17,645 69
		Finn	*****					
Gross telephone revenue: —		EARN	INGS.					
Exchange service: —								
Subscribers' stations.						\$4,495	43	
Subway and pole rental,	:	•	•	•		300		
Total exchange service				· .				\$4,795 43
Real estate deficit, .			Ċ	·				6,970 88
itear estate denoit,	•	•	·	·	·	•	·	
Total telephone and in	come	deficit	, .	٠	•		•	\$2,175 45
		Expe	NSES.					
Operation: —								
General: —								
Accounting department,						\$400	00	
Legal department, .						2,258	50	
Total general, .								\$2,658 50
Commercial: —			•					*=,000
Uncollectible accounts,								\$440 31
Traffic: —	•	•	•	•	•	•	•	Ψ110 01
Operators' wages, .						\$1,300	00	
Operating clerical wages,	•	•	•	•		1,916		
Central office rent, .	•	•	•	•		1,500		
•	•	•	. 0	•		1,500	UU	4 7710 00
Total traffic, .	•	•	•					4,716 00
Total operation, .								\$7,814 81
Repairs,								7,472 41
Total expenses, not in	eludin	g taxes	5,					\$15,287 22
G	ENER	AL BAL	ANCE	SHE	ET.			
Assets.								~
Exchange construction: —								
Overhead lines,						\$13,461		
Underground lines, .						92,872	41	
Central office equipment,						14,613	00	
Subscribers' station equipr	nent,					4,059	00	
Total exchange construc			\mathbf{uipm}	ent, -				\$125,006 01
Amount against							_	0105 000 01
Amount carried forward		•	•	•		•		\$125,006 01

						Items.		Totala	
Amount brought forward	,					rtems.		Totals. \$125,006	Ω1
Amount orought forward	•		•	•	•	•	•	\$125,000	OI
Toll construction: —									
Underground lines, .								20,718	25
Office furniture and fixtures.								2,328	
Tools and vehicles,								144	
·							_		
Total plant account, .								\$148,197	21
Current assets:—	·		•	•	•		·	#,	
Cash on hand,						\$2,370	76		
Notes and accounts receiv	able.					1,977			
Supplies on hand,						3,000			
Total current assets, .		•			. —			7,348	40
							_		
Total debits,								\$155,545	61
Total doctor,	•		•	•	•	•	•	\$100,010	0.1
Liabili	ties.							010 000	00
Capital stock,	•		•	•	•	•	•	\$10,000	00
Current liabilities: —								110 717	70
Loans and notes payable,	•		•	•	•	•	•	113,717	
Balance, surplus,	•		•	•	•		•	31,827	82
							_		
Total credits,			•	•	•		•	\$155,545	61
*									
ı	ROF	T AN	D Lo	ss Ac	COUNT	r. Dr.		Cr.	
Balance from previous year,						D		\$49,473	18
Gross earnings from operation			•	•	•	•	•	4,495	
Pole rental,	on, .		•	•	•	•	•	300	
Real estate revenue (subrent	tala)		•	•	•	•	•	21,749	
Expenses, not including taxe					•	\$15,287	22	22,020	
Taxes,			•	•		182			
Other items: —			•	•	•				
Operating and maintenance	e of l	eased	l build	ling.		24,384	50		
Taxes and insurance on b						4,335		•	
Balance, surplus,		Ů,				31,827			
· - ·									
						\$76,018	41	\$76,018	41
						φ10,010	-11	\$10,010	11
	Q		T.		ATION				
	STAT	ISTIC	AL II	FORM	ATION	•			~
Number of subscribers, .			•	•	•	•	•		257
Number of instruments, .			•	•	•		•		257
Number of operators, .	, ,		•	•	•	•	•		7
Number of subscribers on p				•	•		•		122 135
Number of subscribers on si	ingie	nnes,	•	•	•		•		199
Underground system: — Conduit, feet,								20	299
Duct, feet,			•	•	•	•	•	284,	
Cable, feet,			•			•	•		761
Wire, feet,	. '						·	2,935,	
Overhead system: —						•		2,000,	
Pole line, miles,								6	0.5
Iron wire, miles,									308
						•			

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY.

Location of principal business office: 50 Oliver Street, Boston, Mass.

Date of organization: Oct. 19, 1883. Date of incorporation: Oct. 19, 1883. State in which incorporated: New York.

Date of annual meeting: first Monday in May.

Date when company began to give service: October, 1883.

Cities and towns in Massachusetts in which service is given by the company over its own lines: —

Chicopee, Acton, Clarksburg, Adams, Agawam, Clinton. Alford. Cohasset. Amesbury, Concord, Conway, Amherst. Cummington, Andover. Arlington. Dalton, Ashburnham, Dana, Ashby, Danvers, Ashfield, Dedham, Ashland, Deerfield, Athol, Douglas, Auburn. Dover. Aver. Dracut. Barre. Dudley. Becket. Dunstable, Bedford. Easthampton, Belchertown. East Longmeadow, Bellingham, Egremont, Belmont, Enfield, Berlin, Erving. Bernardston, Essex. Beverly, Everett. Billerica. Fitchburg. Blandford, Florida. Bolton, Foxborough, Boston, Framingham. Boxborough, Franklin. Boxford, Gardner. Boylston, Georgetown. Braintree. Gloucester. Brimfield. Goshen. Brookfield. Grafton. Brookline. Granby, Burlington. Granville. Cambridge. Great Barrington, Canton. Greenfield, Carlisle. Greenwich, Charlton. Groton, Chelmsford. Groveland. Chelsea. Hadley,

Hamilton.

Hampden,

Hancock,

Cheshire.

Chester.

Chesterfield,

Hardwick, Harvard, Hatfield. Haverhill, Hawley, Hingham, Hinsdale. Holbrook. Holden. Holland, Holliston, Holyoke, Hopedale, Hopkinton. Hubbardston. Hudson. Hull, Huntington, Hyde Park, Ipswich, Lancaster, Lanesborough, Lawrence, Lee. Leicester. Lenox, Leominster. Lexington. Leyden, Lincoln. Littleton. Longmeadow. Lowell. Ludlow, Lunenburg, Lynn, Lynnfield. Malden, Manchester. Marblehead, Marlborough, Maynard,

Medfield,

Medford,

Medway,

Melrose. Mendon. Merrimac, Methuen. Middlefield, Middleton, Milford. Millbury, Millis. Milton. Monson, Montague. Monterey, Montgomery. Nahant. Natick. Needham, New Ashford, New Braintree. New Marlborough, Newbury. Newburyport. Newton. Norfolk. North Adams. North Andover. North Brookfield, North Reading, Northampton, Northborough, Northbridge, Northfield, Norwood, Orange, Otis, Oxford, Palmer. Paxton. Peabody. Pelham. Pepperell, Peru. Petersham. Phillipston, Pittsfield,

Plainfield. Princeton. Quincy, Randolph, Reading, Revere, Rockport, Rowley, Royalston. Russell, Rutland. Salem. Salisbury, Sandisfield. Saugus, Savoy, Sharon, Sheffield, Shelburne, Sherborn. Shirley. Shrewsbury. Shutesbury. Somerville. Southampton, South Hadley. Southborough, Southbridge, Southwick, Spencer, Springfield, Sterling, Stockbridge, Stoneham. Stoughton. Stow. Sturbridge, Sudbury, Sunderland. Sutton. Swampscott, Templeton, Tewksbury, Tolland. Topsfield,

Townsend, Tyngsborough, Tyringham, Upton, Uxbridge. Wakefield. Wales. Walpole, Waltham, Ware, Warren, Warwick. Washington, Watertown. Wayland, Webster, Wellesley, Wendell, Wenham. West Boylston, West Brookfield. West Newbury. West Springfield. West Stockbridge. Westborough, Westfield. Westford, Westhampton, Westminster, Weston. Westwood, Weymouth, Whately, Wilbraham, Williamsburg. Williamstown, Wilmington. Winchendon, Winchester. Windsor. Winthrop, Woburn. Worcester. Worthington, Wrentham.

This company also gives service in the States of Maine, New Hampshire and Vermont.

GENERAL OFFICERS AND OFFICIAL TITLES.

Matt B. Jones, .						Counsel.	
Edmund W. Longley						Secretary, Auditor and Cor	np-
						troller.	
Leslie D. Knowlton,						Auditor of disbursements.	
Ralph B. Jones,						Auditor of receipts.	
Fred W. Story, .						Assistant to the Vice-Presiden	it.
Edward A. Wilkie,						Recorder.	
,							
	DIR	ECTO	RS AN	D RE	SIDE	NCES.	
Thomas Sherwin,						Jamaica Plain, Mass.	
Charles F. Ayer,						Boston, Mass.	
Union N. Bethell,			` .			Montclair, N. J.	
John H. Cahill,						New York, N. Y.	
William J. Denver,						Roxbury, Mass.	
Francis H. Dewey,						Worcester, Mass.	
William H. Elliot,						Keene, N. H.	
Edward J. Hall,						Morristown, N. J.	
John F. Hill, .						Augusta, Me.	
Henry S. Hyde,						Springfield, Mass.	
Matt B. Jones, .						Newton, Mass.	
Jasper N. Keller,						Surry, N. H.	
Moses G. Parker,						Lowell, Mass.	
Fletcher D. Proctor,						Proctor, Vt.	
Theodore N. Vail,						Lyndônville, Vt.	
			CAP	ITAL.			
Capital authorized by ar	ticles	s of a	associa	ation.	and	increased from	
time to time under th							00
Capital authorized by vot	_						
Capital paid in, 391,781 s		_					00
Whole number of stockho	lders	3, .				4,	053
Number of stockholders r	eside	nt in	Mass	achus	etts,	3,	581
Amount of stock held in	Mass	sachu	setts,	not i	nclu		
by "Parent Co." (sh						149,	389
Amount of stock held by	pare	nt tel	ephon	e com	pan	y (shares), . 228,	866

DEBTS.

Bonds or notes issued, viz.: —

D.	ATE.	Whe	n due.	Н	ow se	Rate of Interes (Per Cent.)	Amount.				
April April	1, 1891 1, 1895 1, 1896 1, 1899	April April	1, 1906 1, 1915 1, 1916 1, 1919	Debenture, Debenture, Debenture, Debenture,	Bo:	nds.				None. 5 5 5	\$5,000 00 500,000 00 500,000 00 500,000 00
To Capita	al paid in	int of b		Debenture,		·	· · ·	•			1,000,000 00 \$2,505,000 00 . 39,178,100 00 . \$41,683,100 00

. \$11,056,962 43

Condensed Statement of	о Оре	RATIN	G FOR	TH	E YEAR Items		но	LE SYSTEM). Totals.	
Gross telephone revenue, 1					Tuems	•			00
Less rebates and discounts.	•	•	•	•	•	•	•	\$13,104,286	
Less repates and discounts,	•	•	•	•	•	•	•	19,065	71
Telephone revenue, .								\$13,085,221	28
Operation,	•	•	•	•	\$5,275,	971	17	\$10,000,221	40
Current maintenance,	•	•	•	•					
Depreciation,	•	•	•	•	1,756,				
Total expenses, not include			•	•	2,557,	040	34	0.500.550	4.7
Total expenses, not include	ing ta	ixes,	•	• -				9,588,772	41
Net telephone earnings,								\$3,496,448	27
Miscellaneous income,	•	•	•	•	•	•	•	330,971	
wiscentificous income,	•	•	4	•	•	•	٠.	350,871	11
Total income above expens	ses.							\$3,827,420	04
Interest charges and taxes: —	,	•	•	•	•	•	•	Ψ0,021,120	01
Interest on funded debt,					\$115,	000	٥٥		
Interest on floating debt,	•		•	•					
m	•	•	•	•		887			
Taxes,	•	•	•	•	820,	427	U3	000 011	
Total charges,	•	•	•					939,314	51
Sumplies of not income a har								60 000 105	
Surplus of net income above Dividends declared:—	ve cna	arges,	•	•	•	•	٠	\$2,888,105	53
$6\frac{1}{4}$ per cent. on \$39,178,100,	comm	on,						2,448,631	25
•									
Surplus for year ending Ju		, 1911	,					\$439,474	2 8
Depreciation stocks and bonds,								200,000	00
TF t To	*****	/W	OT E. C.	er come	336)			\$239,474	40
Gross telephone revenue:— Exchange service:—	NINGS	s (WH	ole S	YSTI	EM).			\$239,474	40
Gross telephone revenue:—	NINGS	. (Wн	ole S	YSTI	ем). \$9,290,	074	65	\$ 239,474	20
Gross telephone revenue:— Exchange service:—	NINGS	:	ole S	YSTI				\$259,474	20
Gross telephone revenue:— Exchange service: — Subscribers' stations, .		· · · ·	ole S	YSTI	\$9,290, 577,		76	\$ 239,474	20
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, .	:	:	ole S	YST1	\$9,290, 577, 40,	212	76 61	\$208,474	20
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals,	· · · rning	:	ole S	YSTE	\$9,290, 577, 40,	212 270	76 61		
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea	· · · rning	:	ole S	·	\$9,290, 577, 40,	212 270	76 61	\$239,474 \$9,908,224	
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service,	· · · rning	:	ole S	**************************************	\$9,290, 577, 40,	212 270 666	76 61 08		
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, .	· · · rning	:	ole S	**************************************	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —		
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, . Attachments and rentals,	· · · rning	:	ole S	YSTI	\$9,290, 577, 40, \$3,019,	212 270 666	76 61 08 —	\$9,908,224	10
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, . Attachments and rentals, Total toll service, .	· · · rning	:	ole S	·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —		10
Gross telephone revenue:— Exchange service: — Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service: — Toll service, . Attachments and rentals, Total toll service, . Private line: —	rning		ole S	·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224 3,075,509	10
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, Attachments and rentals, Total toll service, . Private line:— Rental instruments and eq	rning		ole S	·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224	10
Gross telephone revenue:— Exchange service: — Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service: — Toll service, . Attachments and rentals, Total toll service, . Private line: —	rning	s,		·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224 3,075,509	10 29 33
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service; . Attachments and rentals, Total toll service, . Private line:— Rental instruments and equal toll service and equal toll service. Rental instruments and equal toll service and equal toll service.	rning	s,		·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224 3,075,509 58,714 61,839	10 29 33 27
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, . Attachments and rentals, Total toll service, . Private line:— Rental instruments and equations and equations and equations are sublicensee:— Rental instruments and equations are sublicensee:— Total gross telephone re	rning	s,		·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224 3,075,509 58,714 61,839 \$13,104,286	10 29 33 27 99
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service; . Attachments and rentals, Total toll service, . Private line:— Rental instruments and equal toll service and equal toll service. Rental instruments and equal toll service and equal toll service.	rning	s,		·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224 3,075,509 58,714 61,839	10 29 33 27 99
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, . Attachments and rentals, Total toll service, . Private line:— Rental instruments and equations and equations and equations are sublicensee:— Rental instruments and equations are sublicensee:— Total gross telephone re	rning	s,		·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224 3,075,509 58,714 61,839 \$13,104,286 19,065	10 29 33 27 99
Gross telephone revenue:— Exchange service: — Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service: — Toll service, . Attachments and rentals, Total toll service, . Private line: — Rental instruments and eq Sublicensee: — Rental instruments and eq Total gross telephone re Less rebates and discounts,	rning	s,		·	\$9,290, 577, 40, \$3,019,	212 270 666 134	76 61 08 —	\$9,908,224 3,075,509 58,714 61,839 \$13,104,286 19,065	10 29 33 27 99 71 28
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, . Attachments and rentals, Total toll service, . Private line:— Rental instruments and eq Sublicensee:— Rental instruments and eq Total gross telephone re Less rebates and discounts, Telephone revenue,	rning	ent,			\$9,290, 577, 40, \$3,019, 56,	212 270 666 134 375	76 61 08 21 08	\$9,908,224 3,075,509 58,714 61,839 \$13,104,286 19,065 \$13,085,221 \$13,085,221	10 29 33 27 99 71 28
Gross telephone revenue:— Exchange service: — Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service: — Toll service, . Attachments and rentals, Total toll service, . Private line: — Rental instruments and eq Sublicensee: — Rental instruments and eq Total gross telephone re Less rebates and discounts, Telephone revenue, Amount carried forward,	rning	ent,			\$9,290, 577, 40, \$3,019, 56,	212 270 666 134 375	76 61 08 21 08	\$9,908,224 3,075,509 58,714 61,839 \$13,104,286 19,065 \$13,085,221 \$13,085,221	10 29 33 27 99 71 28 28
Gross telephone revenue:— Exchange service: — Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service: — Toll service, . Attachments and rentals, Total toll service, . Private line: — Rental instruments and eq Sublicensee: — Rental instruments and eq Total gross telephone re Less rebates and discounts, Telephone revenue, Amount carried forward,	rning	ent,			\$9,290, 577, 40, \$3,019, 56,	212 270 666 134 375	76 61 08 21 08	\$9,908,224 3,075,509 58,714 61,839 \$13,104,286 19,065 \$13,085,221 \$13,085,221	10 29 33 27 99 71 28 28
Gross telephone revenue:— Exchange service:— Subscribers' stations, . Pay stations, . Attachments and rentals, Miscellaneous exchange ea Total exchange service, Toll service:— Toll service, . Attachments and rentals, Total toll service, . Private line:— Rental instruments and eq Sublicensee:— Rental instruments and eq Total gross telephone re Less rebates and discounts, Telephone revenue, Amount carried forward, Gross telephone revenue and inc Gross telephone revenue, .	rning	ent,			\$9,290, 577, 40, \$3,019, 56,	212 270 666 134 375	76 61 08 21 08	\$9,908,224 3,075,509 58,714 61,839 \$13,104,286 19,065 \$13,085,221 \$13,085,221	10 29 33 27 99 71 28 28 51

Total telephone revenue and income,

						Items.		Totals.	
Amount brought forwar	$\cdot d$, .					2002250		\$13,085,221 28	R
Amount orought forwar	a, .	•	•	•	•	•	•	φ10,000,221 20	3
Gross telephone revenue -	- Conc	ludeo	7.						
Miscellaneous income: —		•••••							
Real estate revenue,						\$10,941	94		
Dividends on stocks o	f othe			ies.		73,815			
Interest on bonds ar					ing	,			
accounts,						168,280	17		
Interest on bank depos	sits, .					67,290			
Sales and job work ab						10,642	86		
Total miscellaneous								330,971 17	7
							-		-
Total telephone reve	enue a	nd i	com	e,				\$13,416,192 48	5
:	Exper	NSES	(Wi	IOLE	Sys	гем).			
Operation:—									
General: —									
Executive department	, ,					\$140,648	74		
Accounting departmen						97,258	76		
Financial department,						37,335	52		
Legal department,						84,187	12		
Total general, .								\$359,430 14	4
Commercial: —									
Commercial supervision	n, .					\$260,405	38		
Advertising,						142,624	58		
Canvassing,						224,197			
Directory,						174,503			
Revenue accounting,						288,675			
Revenue collecting,						317,423			
Pay-station commission	ns					164,725			
Sublicensee relations,						42,675			
Uncollectible accounts						22,265			
Total commercial,								1,637,496 29	9
Traffic: —				•				_,,	
Traffic supervision, .						\$257,176	81		
Service inspection,						80,697			
Operators' wages, .			i			1,605,257			
Operating clerical wag	es.			i		76,342			
Rest and lunch rooms,			•	•		56,306			
Operators' schooling,			•	i	·	68,445			
Central office rent,			•	•	·	208,599			
Pay-station expense,			•	•	•	49,852			
Other operating expen				•	•	111,372			
Total traffic, .					•			2,514,051 65	2
Rights, privileges and us	se of r	a r one	rtv:		·			_,0,00_	
Rental of instruments						\$590,026	07		
Conduit, pole and oth		ice.		•	·	136,736			
Total rights, privileg	es and	d use	of r	roner	tv.			726,762 9	6
T.,				· · ·				37,530 40	
			•	•	·	•	Ċ.		
Total operation,								\$5,275,271 4	7
Maintenance:—								,,	
Repairs: —									
Supervision,						\$196,507	05		
Aërial plant.						468,678			
						130,018			
Amounts carried forwa	rd,					\$665,185	83	\$5,275,271 43	7
						,	***		

					Items.		Totals.
Amounts brought forward,							\$5,275,271 47
Amounts brought forward,	•	•	•	•	\$000,100	00	\$5,215,211 41
Maintenance — Concluded.							
Repairs — Concluded.							
					102.050	F 1	
Underground plant, . Central office equipment,	•	•	•	•	123,250		
Central once equipment,	•	•	•	•	269,849		
Subscribers' equipment,	٠	•	•	•	357,288	28	
Real estate,		•	•	•	14,071		
m							
Total repairs, .	٠	•	•	•	\$1,429,645		
Station removals and change	es,	•	•	•	326,809	11	
Total current maintenar			•			_	1 1,756,454 40
Depreciation of plant, .							2,557,046 54
Total expenses not inclu							² \$9,588,772 41
Total expenses not meru	шщ	guaxes	S, .	•	• •	•	Φ9,300,772 41
GE	VER	AT. BA	LANCE	SHI	EET.		
Assets.							
Exchange construction: —							
Right of way,					\$404,598	23	
Overhead lines,					8,330,319		
Underground lines					8,322,306	83	
Submarine lines,					42,940	50	
Central office equipment.					4,627,434		
Submarine lines,	nt.				5,849,355		
Total exchange construction	on a	and eo	uipme	nt.			\$27,576,954 44
Toll construction: —		••••	(dipino	110,			421,010,001
Right of way,					\$323,593	66	
Overhead lines	•	•	•	•	6,042,576		
Underground lines, .		•	•	•	4,836,675		
Submarine lines,	•	•	•	•	59,428	50	
Submarine lines, Total toll construction,	•	•	•	•		JJ	11,262,274 49
		•	•	• •			
Construction in process, . Real estate required for operation	•	•	•	•		•	2,626,963 56 2,092,984 34
						•	2,092,984 34 110,822 67 296,715 30
Investment real estate not requ	nrec	i for o	peratio	n,		•	110,822 07
Office furniture and fixtures,	٠	•	•	•		•	
Tools and vehicles,	٠	•	•	•		•	291,398 37
Total plant account, .							\$44,258,113 17
Securities of other companies,							2,291,381 52
Current assets: —			·	Ť			, , , , , , , , ,
Cash on hand,					\$1,174,382	50	
Notes receivable,	•	•	•	•	2,175,388		
Accounts receivable, .	•	\$2.6	16,555	an	2,1.0,000	00	
Less uncollectible reserve							
Less uncollectible reserve,	•	10			2,461,071	US	
Supplies on hand, .					1,741,481		
	•	•	•	•	38,698		
Unexpired insurance, .	•	•	•	•	38,098	13	
Amounts carried forward,					\$7,591,022	02	\$46,549,494 69

 $^{^{\}rm 1}$ Total current maintenance includes station renewals and charges, which account in 1910 was included in reconstruction.

² In report of 1910, total of all operating expenses included taxes.

					Items.		Totals.
Amounts brought forward,						02	\$46,549,494 69
in the same of the		- 1			4.,,.		,,,
Current assets — Concluded.							
Prepaid directory expense,					7,631	11	
Treasury bonds,					55,000	00	
Total current assets, .							7,653,653 13
Total debits,							\$54,203,147 82
,							
Liabilities	ì.						
Capital stock, common, .							\$39,178,100 00
Bonded debt,	•	•	•	•	• •	•	2,505,000 00
Current liabilities: —	•	•	•	•	• •	•	2,000,000 00
Audited vouchers and accoun	nts				\$600,432	31	
Salaries and wages, unpaid,		•			320		
Dividends not called for,	•	•	•	·	2,113		
Unearned subscribers' rentals	•	•	•	•	61,572		
Unearned tolls,	5,	•	•	•	563		
Total current liabilities,	•	•	•	•		00	665,002 65
Accrued liabilities: —	•	•	•	•			000,002 00
					620 7EA	00	
Interest accrued but not due		•	•	•	\$38,750		
Taxes accrued but not due,		٠,	,*	•	375,886		
Vouchers and accounts accru	ied but	t not	due,	٠	74,636	79	400.070.0*
Total accrued liabilities,	•	•	•			_	489,273 25
Sinking and other special funds	s: —						
Maintenance,	•	•	•	٠	\$5,592,280		
Fire insurance,	•	•	•	•	248,690		
Accident insurance, .	•	•	•	•	153,126		
					5,930		
To meet plant supervisory e					18,224		
To meet stable and garage e					1,130	23	
To meet supply department	expen	se,			26,922	98	
				_			- 6,046,304 94
1908 inventory adjustment,							1,640,155 49
Total liabilities, .							\$50,523,836 33
Balance, surplus,							3,679,311 49
Total credits,							\$54,203,147 82
Pro	FIT A	ND L	oss A	CCO	UNT.		C=
D 1 .							Cr.
Balance from previous year,	•		•	٠		•	\$3,439,837 21
Gross earnings from operation,		•	•	٠		•	13,104,286 99
Real estate revenue, .		•	•	٠		•	10,941 94
Dividends received on stock ow			npany	,		•	73,815 43
Interest received on bonds and		,	•	٠		•	131,871 94
Interest on running accounts,	•	•		•			36,169 23
Interest on bank balances,	:	•					67,290 77
Interest on N. E. T. & T. Co.		3,					225 00
Interest on stock sold, .				•			14 00
Sales and job work above field	cost,						10,642 86
4 4							010 051 001
Amount carried forward,	•	•	•	•			\$16,875,095 37

					Dr.		Cr.	
Amount brought forward,	•	•	•	٠		٠	\$ 16,875,095	37
Expenses, not including taxe	s.				\$9,588,772	41		
Rebates and discounts	~, .	•	•	•	19,065			
Interest on funded debt,	•	•	•	•	115,000			
Interest on floating debt, .	•	•	•	•	3,887			
m	•	•	•	•	820,427			
Taxes,	honde	•	•	•	200,000			
Dividends declared on stock,		•	•	•	2,448,631			
TO 1		•	•	•	3,679,311			
Balance, surplus,	•	•	•	•		49		
					\$16,875,095	37	\$16,875,095	37
PLANT ACCOUNTS (AD	DITION	S ANI	DEI	DUCT:	IONS DURING	TH	E YEAR).	
Additions.					Items.		Totals.	
Exchange construction: —								
Right of way,					\$19,922	91		
Overhead lines,					603,832	91		
Underground lines,					356,631	22		
Submarine lines,					2,002	56		
Central office equipment,					54,420	73		
Subscribers' station equipm	nent,				574,570	32		
Total exchange construc	tion an	d equi	ipmer	ıt, -			\$1,611,380	65
Toll construction: —								
Right of way,					\$47,775	42		
Overhead lines,					168,486	34		
Underground lines, .					64,481	80		
Submarine lines, 1.					5,687	54		
Total toll construction,							275,056	02
Construction in process, .							1,454,159	
Real estate required for opera	ation.					Ĭ.	631,395	
Investment real estate not red			eratio	n.1			6,958	
Office furniture and fixtures,						Ĭ	49,296	
Tools and vehicles,		Ĭ				Ī	72,566	
- some ware voluments, i	·		•	Ċ	•	Ĭ.		
Total additions, .				•			\$4,086,896	11
Deduction	.S.							
Property sold: —								
Exchange overhead lines,					\$41,904	06		
Exchange underground line	es, .				2,161	51		
Central office equipment,					3,532	97		
Subscribers' station equipm	nent,				9,473	38		
Toll overhead lines, .					6,336	23		
Toll underground lines,					27	09		
Real estate,					49,724	45		
Total deductions, .							113,159	69

. . . \$3,973,736 42

Net additions to plant account for the year,

STATISTICAL INFORMATION.

		Massa-			
	Boston and Suburban Division.	chusetts, Outside Boston and Suburban Division.	All Massa- chusetts.	Outside of Massa- chusetts.	Whole System.
Number of subscribers,	127,192	108,959	236,151	64,568	300,719
Number of stations,	130,819	111,897	242,716	66,452	309,168
Number of operators,	2,133	1,073	3,206	700	3,906
Number of pay stations,	3,627	2,938	6,565	1,884	8,449
Number of subscribers on party lines,	102,810	94,313	197,123	57,751	254,874
Number of subscribers on single lines,	24,382	14,646	39,028	6,817	45,845
Underground system: —					
Conduit, feet,	1,520,722	1,390,242	2,910,964	368,861	3,279,825
Duct, feet,	8,843,804	5,523,329	14,367,133	1,569,521	15,936,654
Cable, feet,	4,367,695	2,990,037	7,357,732	851,186	8,208,918
Wire, miles,	273,602	139,617	413,219	44,595	457,814
Submarine system: —					
Cable, feet,	20,722	8,472	29,194	111,321	140,515
Wire, miles,	479	156	635	642	1,277
Overhead system: —					
Pole line, miles,	1,139	5,680	6,819	8,942	15,761
Iron wire, miles,	60,813	78,365	139,178	71,367	210,545
Copper wire, miles,	1,743	27,130	28,873	36,592	65,465

GENERAL REMARKS AND EXPLANATIONS.

[&]quot;The revenue within the State which is here reported is the revenue which has been collected within the State of Massachusetts. No deduction has been made for such portion of tolls as were collected within the State, but transmitted partly over lines lying without the State. Neither has the separation been made of tolls originating at points outside of the territory of the New England Telephone and Telegraph Company but terminating at points within such territory.

[&]quot;If such separation were made, it would probably show that a considerable sum collected within the State of Massachusetts had been earned on toll lines located outside of that State."

\$10,000 00

PROVIDENCE TELEPHONE COMPANY OF MASSACHUSETTS.

Location of principal business office: 125 Milk Street, Boston, Mass.

Date of organization: Dec. 2, 1890. Date of incorporation: Feb. 24, 1891.

State in which incorporated: Massachusetts.

Date of annual meeting: first Tuesday in December. Date when company began to give service: April 28, 1891.

Service is given by this company over its own lines in the towns of

Attleborough,	North Attleborough,	Rehoboth,
Bellingham,	Norton,	Seekonk,
Blackstone,	Plainville,	Swansea.

GENERAL OFFICERS AND OFFICIAL TITLES.

Dexter B. Potter,				President.	
Charles T. Howard,				Treasurer.	
T 1 73 70 1				~	

Joseph F. Beck, General Manager.

Robert W. Devonshire. . Clerk.

DIRECTORS AND RESIDENCES.

Dexter B. Potter,				Providence, R. I.
Charles T. Howard,				Coventry, R. I.
Joseph F. Beck,				Providence, R. I.
Robert W. Devonshir	re,			Boston, Mass.
Thomas Sherwin,				Boston, Mass.

CAPITAL.

Capital authorized by vote of company, Capital paid in, 800 shares; par value, \$100,				80,000 00 80,000 00
Whole number of stockholders,				6
Number of stockholders resident in Massachusetts,				2
Amount of stock held in Massachusetts (shares),				2
Amount of stock held by parent telephone company	(share	s),		795

DEBTS.

Bonds or notes issued, viz.: -

Capital authorized by charter.

DATE.	Whe	n due.		1.		Rate of Interest (Per Cent.).			Amount.		
April 17, 1911	July	1, 1911	-	-			-			5	\$10,000 00
Total amo	unt of	bonds and	l notes,								\$10,000 00
Capital paid i	n, .									.	80,000 00
Total liab	ility for	capital a	nd loans,						٠.	.	\$90,000 00

Condensed States	MENT	or (OPER.	ATING	FOR THE YEAR.	
					Items.	Totals.
Gross telephone revenue, .					\$62,675 08	
Less rebates and discounts,	i		Ċ		469 74	
Telephone revenue, .				· . –		\$62,205 34
Operation,		·	i		\$25,671 45	\$0 2,2 00 01
Current maintenance, .	•	•		·	11,026 50	
Depreciation,	•	•	•	•	13,700 00	
Total expenses, not includi	no t	axes.	·	· -	20,.00 00	50,397 95
Total expenses, not morace	me o	CLA COS	•	•		00,00. 00
Net telephone earnings,						\$11,807 39
Miscellaneous income, .						259 39
· ·						
Total income above expense	es,					\$12,066 78
Interest charges and taxes: —						
Interest on floating debt,					\$1,053 16	
Taxes,					2,196 28	
Total charges,						3,249 44
Surplus of net income abov	e ch	arges,				\$8,817 34
Dividends declared: —						
5 per cent. on \$80,000, .						4,000 00
Surplus for year ending Jur	ne 30), 1911	Ι,			\$4,817 34
		EARN	INGS.			
Gross telephone revenue: —						
Exchange service: —						
Subscribers' stations, .					\$51,997 47	
Pay stations,					1,449 13	
Attachments and rentals,					56 83	
Total exchange service,	i	·	Ĭ	· .		\$53,503 43
Toll service: —		·	Ť	Ť		****
Toll service,						9,171 65
,					_	
Total gross telephone reven	ue.					\$62,675 08
Less rebates and discounts,						469 74
,					_	
Telephone revenue, .						\$62,205 34
Miscellaneous income: —						
Interest on deposits, .						259 36
•					_	
Total telephone revenue an	d in	come,				\$62,464 73
		EXPE	NSES.			
Operation: —						
General: —						
Executive department,					\$1,200 00	
Accounting department,					490 82	
Financial department,					480 87	
Legal department, .					20 75	
Inventory,					74 27	
Total general, .						\$2,266 71
					_	
Amount carried forward,						\$2,266 71

					Items		Totals.	
Amount brought forward,	•	•	•	•			\$2,266	71
Operation — Concluded.								
Commercial:—								
Commercial supervision,					\$1,421	50		
Advertising,	i	•	·	•	178			
Canvassing,	•	•	•	•	480			
Directory,	i	i	•	•	1,273			
Revenue accounting, .	•	•	•	•	1,698			
Revenue collecting, .	•	•	•	•	980			
Pay-station commissions,	•	•	•	•	768			
Total commercial, .	•	•	•	٠.	700		6,801	00
Traffic:—	•	•	•	•			0,801	00
Traffic supervision, .					\$1,387	41		
Operators' wages, .	•	•	•	•	9,050			
Central office rent, .	•	•	•	•	1,807			
Other operating expenses.	•	•	•	•	702			
Total traffic,	, .	•	•	٠.		40	19.047	0.1
Rights, privileges and use of	of nro	nortz					12,947	91
Rental of instruments,	, pro	perty	. —		eo 749	20		
Conduit, pole and other s		•	•	•	\$2,742 531			
Total rights, privileges	ond.	· ·	· nmon		991	90	2.074	25
Insurance,	and	use or	prope	3r (y, -			3,274	
insurance,	•	•	•	•	•	•	381	40
Total operation, .							\$25,671	45
Maintenance:—		•		·		•	\$20,011	10
Repairs: —								
Supervision,					\$1,744	41		
Aërial plant,	·	·	i.	·	2,651			
Underground plant, .		•	·	·	378			
Central office equipment,		•		•	1,942			
Subscribers' equipment,		•	•	·	3,349			
Real estate,	•	•	•	•	24			
real estate,	•	•	•	٠.	## ## ## ## ## ## ## ## ## ## ## ## ##			
Total repairs, .					\$10,090	41		
Station removals and chang	res	•	•	•	936			
Total current maintena		•	•	٠			11,026	50
Depreciation of plant, .	mcc,	•	•	•			13,700	
Depreciation of plant,	•	•	•	•		· _	15,700	
Total expenses, not inc	cludir	g taxe	es.				\$50,397	95
* *		J	·				,	
		- D		- a				
Gi	ENERA	L BA	LANCE	SHE	ET.			
Assets.								
Exchange construction: —								
Overhead lines,					\$36,978	43		
Underground lines, .					34,731			
Central office equipment,					16,987	64		
Subscribers' station equipme	ent.				25,334			
Total exchange construct		nd ear	uinme	nt			\$114,032	04
Toll construction: —				,			,	
Overhead lines,					\$18,540	95		
Underground lines, .					4,238			
Total toll construction,							22,779	18
2 our von construction;								
Total plant account, .							\$136,811	22
Amount carried forward,			•				\$136,811.	22

				Items.		Totals.	
Amount brought forward,						\$136,811	22
Current assets: —							
Cash on hand,	• •	•	•	\$12,377			
Accounts receivable, .		•	•	4,654			
Supplies on hand, .			•	2,397	16		
Total current assets, .						19,428	45
Total debits,					-	\$156,239	67
Total debits,	• •	•	•		•	Ψ100,200	0,
Liabilities.							
Capital stock, common, .						\$80,000	00
Current liabilities: —							
Loans and notes payable,				\$10,000	00		
Audited vouchers and account	s			16,953	45		
Salaries and wages unpaid,				285			
Unearned subscribers' rentals,				20			
Total current liabilities,	•	•				27,259	30
Sinking and other special funds:	·	•	•			21,200	30
-				865 4	54		
Reserve for doubtful accounts,	•	•	•	\$654			
Reserve for depreciation, .		•	•	26,024			
Reserve for extraordinary repa			•	831	69	~= ~- ~	•
Total sinking and other spec	cial fun	ids, .	. –			27,510	68
Total liabilities,						\$134,769	98
Balance, surplus,						21,469	
					_	·	
Total credits,						\$156,239	67
		•	·				
			,				
	IT AND	Loss	Accou	NT.		Cr.	
Profi	IT AND	Loss	Accou			Cr.	25
Profi	IT AND	Loss	Accou			\$16,652	
Profi Balance from previous year, . Gross earnings from operation, .	IT AND	Loss	Accou			\$16,652 62,675	08
Profi Balance from previous year, Gross earnings from operation, Miscellaneous income,		Loss	Accou	Dr		\$16,652	08
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes,		Loss	Accou	Dr		\$16,652 62,675	08
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts,		Loss	Accou	Dr	74	\$16,652 62,675	08
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt,		Loss	Accou	Dr	74 16	\$16,652 62,675	08
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes,		Loss	Accou	Dr	74 16 28	\$16,652 62,675	08
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock,		Loss	Accou	Dr	74 16 28	\$16,652 62,675	08
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes,		Loss	Accou	Dr	74 16 28 00	\$16,652 62,675	08
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock,		Loss	Accou	\$50,397 469 1,053 2,196 4,000 21,469	74 16 28 00 69	\$16,652 62,675 259	08 39
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock,		Loss	Accou	Dr	74 16 28 00 69	\$16,652 62,675	08 39
Balance from previous year, . Gross earnings from operation, . Miscellaneous income, Expenses, not including taxes, . Rebates and discounts,			:	Dr	74 16 28 00 69 82	\$16,652 62,675 259 \$79,586	08 39
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes,			:	Dr	74 16 28 00 69 82	\$16,652 62,675 259 \$79,586	08 39
Profit Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, Plant Accounts (Additions.			:	Dr	74 16 28 00 69 82	\$16,652 62,675 259 \$79,586	08 39
Balance from previous year, . Gross earnings from operation, . Miscellaneous income, Expenses, not including taxes, . Rebates and discounts,			:	Dr	74 16 28 00 69 82	\$16,652 62,675 259 \$79,586	08 39
Prof. Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, Plant Accounts (Additions. Exchange construction: — Overhead lines,			:	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586	08 39
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts,	ONS AD		:	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586	08 39
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, PLANT ACCOUNTS (ADDITE Additions. Exchange construction: Overhead lines, Underground lines, Central office equipment,	ONS AD		:	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586	08 39
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, PLANT ACCOUNTS (ADDITE Additions. Exchange construction: Overhead lines, Underground lines, Central office equipment, Subscribers' station equipment	ONS AD		OUCTIO	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586	08 39
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, PLANT ACCOUNTS (ADDITE Additions. Exchange construction: Overhead lines, Underground lines, Central office equipment,	ONS AD		OUCTIO	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586	08 339 — 82
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, PLANT ACCOUNTS (ADDITE Additions. Exchange construction: Overhead lines, Underground lines, Central office equipment, Subscribers' station equipment	ONS AD		OUCTIO	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586 YEAR).	08 339 — 82
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, PLANT ACCOUNTS (ADDITE Additions. Exchange construction: Overhead lines, Underground lines, Central office equipment, Subscribers' station equipment Total exchange construction	ONS AD		OUCTIO	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586 YEAR).	08 39
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, PLANT ACCOUNTS (ADDITE Additions. Exchange construction: Overhead lines, Underground lines, Central office equipment, Subscribers' station equipment Total exchange construction: Toll construction: Overhead lines,	ONS AD		OUCTIO	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586 YEAR).	08 39 82
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Dividends declared on stock, Balance, surplus,	ONS AD		OUCTIO	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586 YEAR).	08 39 82
Balance from previous year, Gross earnings from operation, Miscellaneous income, Expenses, not including taxes, Rebates and discounts, Interest on floating debt, Taxes, Dividends declared on stock, Balance, surplus, PLANT ACCOUNTS (ADDITE Additions. Exchange construction: Overhead lines, Underground lines, Central office equipment, Subscribers' station equipment Total exchange construction: Toll construction: Overhead lines,	ONS AD		OUCTIO	Dr	74 16 28 00 69 82 THE	\$16,652 62,675 259 \$79,586 YEAR).	08 39

$A \it{mount}$ brought forward,						Items	s. 	Totals. \$19,548 18
- Deductions.								
Exchange overhead lines, .						\$5,018	71	
Exchange underground lines,	•	•	•	•		1,063		
Toll overhead lines,	:	•	•	•		1,407		
Central office equipment, .		Ċ	•	•		27		
Subscribers' station equipment,		•		•		2,008		
Total deductions, .		Ċ		· .				9,524 67
2001 200201-0	·	·	·	·				0,022 0,
Net additions to plant acco	ount	for tl	ne yea	r,				\$10,023 51
Sta	ATIST	TICAL	Infor	RMATI	ON.			
Number of subscribers, .								1,851
Number of instruments, .								2,087
Number of operators, .								27
Number of pay stations, .								. 33
Number of subscribers on party	y lin	es,						1,744
Number of subscribers on singl	e lin	es,						107
Underground system: —								
Conduit, feet,								27,086.40
Duct, feet,								67,161.60
Cable, feet,								43,137.60
Wire, feet,								11,517,211.20
Overhead system: —								
Pole line, miles,								74.50
Iron wire, miles,						3.		496.14
Copper wire, miles, .	•	•	•	•	•		•	976.36

THE SOUTHERN MASSACHUSETTS TELEPHONE COMPANY.

Location of principal business office: 50 Oliver Street, Boston, Mass.

Date of organization: Feb. 17, 1880. Date of incorporation: Feb. 17, 1880.

State in which incorporated: Massachusetts.

Date of annual meeting: second Saturday in February. Date when company began to give service: February, 1880.

Cities and towns in Massachusetts in which service is given by the company over

its own lines: -

Chatham,	Fairhaven,
Chilmark,	Fall River,
Dartmouth,	Falmouth,
Dennis,	Freetown,
Dighton,	Gay Head,
Duxbury,	Halifax,
East Bridgewater,	Hanover,
Eastham,	Hanson,
Easton,	Harwich,
Edgartown,	Kingston,
	Chilmark, Dartmouth, Dennis, Dighton, Duxbury, East Bridgewater, Eastham, Easton,

5,938

Lakeville,	Orleans,	Swansea,
Mansfield,	Pembroke,	Taunton,
Marion,	Plymouth,	Tisbury,
Marshfield,	Plympton,	Truro,
Mashpee,	Provincetown,	Wareham,
Mattapoisett,	Raynham,	Wellfleet,
Middleborough,	Rehoboth,	West Bridgewater,
Nantucket,	Rochester,	Westport,
New Bedford,	Rockland,	West Tisbury,
Norton,	Sandwich,	Whitman,
Norwell,	Scituate,	Yarmouth.
Oak Bluffs,	Somerset,	

This company also gives service in the State of Rhode Island.

GENERAL OFFICERS AND OFFICIAL TITLES.

Thomas Sherwin, .						President.
William R. Driver,						Treasurer.
Edmund S. Willard,						Assistant Treasurer.
Edmund W. Longley,	•	•	٠	•	٠	Clerk, Auditor and Comptroller.
Jasper N. Keller, .						Vice-President.
Francis A. Houston,						General Manager.
William J. Denver,						Assistant General Manager.
Leslie D. Knowlton,						Auditor of Disbursements.
Ralph P. Jones, .						Auditor of Receipts.
Webster A. Arey, .						Assistant Auditor.

DIRECTORS AND RESIDENCES.

Charles F. Ayer, .			Boston, Mass.
Charles W. Clifford,			New Bedford, Mass.
Theodore N. Vail, .			Lyndonville, Vt.
Francis A. Houston,			Concord, Mass.
Jasper N. Keller, .			Surry, N. H.
Moses G. Parker, .			Lowell, Mass.
Thomas Sherwin, .			Jamaica Plain, Mass.

CAPITAL.

Capital authorized by charter and increased under	the ger	neral la	aw,	\$600,000	00
Capital authorized by vote of company,				600,000	00
Capital paid in, 6,000 shares; par value, \$100, .				600,000	00
Whole number of stockholders,					10
Number of stockholders resident in Massachusetts,					7
Amount of stock held in Massachusetts (shares)					51

Amount of stock held by parent telephone company (shares),

DEBTS.

Bonds or notes issued, viz.: —

DATE.	When due.	I	Iow_secure	d.			Rate of Interest (Per Cent.).	Amount.
June 1, 1896	June 1, 1916	Debenture,	Bonds.				5	\$200,000 00
July 1, 1910	Demand, .	-	Notes.		-		6	1,525,000 00
Total amo	unt of bonds and	d notes, .						\$1,725,000 00
Capital paid is	a,							600,000 00
Total liabi	lity for capital a	nd loans, .				٠		\$2,325,000 00

CONDENSED STATEMENT	OF	OPE	RATING	FOR	THE	$\mathbf{Y}_{\mathbf{EAR}}$	(W	HOLE	System).	
						Ite	ms.		Totals.	
Gross telephone revenue, 1.									\$970,346	74
Less rebates and discounts,		•	•	•					521	35
Telephone revenue, .									\$969,825	39
Operation,						\$376,8	882	01		
Current maintenance, .						178,	881	57		
Depreciation,						196,0	055	79		
Total expenses, not incl	udin	g ta	xes,	•	. —				751,819	37
Net telephone earnings,									\$218,006	02
Miscellaneous income, .			•		•	•	•	•	860	05
Total income above exp	ense	s, ²							\$218,866	07
Interest charges and taxes: -	_									
Interest on funded debt,						\$10,0	000	00		
Interest on floating debt,						116,2	236	48		
Taxes,						18,4	192	12		
Total charges,					. —				144,728	60
Surplus of net income all Dividends declared:—	bove	cha	rges, .		•				\$74,137	47
$6\frac{1}{4}$ per cent. on \$600,000,						•		٠	37,500	00
Surplus for year ending	June	e 30,	1911,						\$36,637	47
¹ Telephone revenue and incom	e in	Mass	achusett	:s: —						
Gross telephone revenue, . Less rebates and discounts,						:			. \$955,448 . 521	
Telephone revenue, . Miscellaneous income, .		:							\$954,926 . 852	
•										

² In report of 1910, total income above expenses included a deduction for taxes, while in report of 1911 amount of taxes is deducted after this item.

No. 54.]

EARNINGS (WHOLE SYSTEM).

Gross telephone revenue: —							
Exchange service: —					Items.		Totals.
Subscribers' stations, .					\$677,159	75	
Pay stations,					24,728	04	
Attachments and rentals,					3,825	02	
Total exchange service,							\$705,712 81
Toll service: —							******
Toll service,					\$258,831	46	
Attachments and rentals,					3,723		
Total toll service, .							262,554 91
Private line: —	•	•					202,001 01
Rental instruments and equi	nmer	nt.					2,079 02
Tours Indication of the order	paraoa	20,	·		•		2,010 02
Total gross telephone reve	nue,						\$970,346 74
Less rebates and discounts,							521 35
,						_	
Telephone revenue, .							\$969,825 39
Miscellaneous income: —							
Interest on bank deposits,					\$520	13	
Sales and job work above fie	ld co	st,			339	92	
Total miscellaneous incom	e,						860 05
						_	
Total telephone revenue a	nd in	come,					\$970,685 44
Exp	ENSE	s (Wн	OLE	Sys	TEM).		
Operation:		`			ĺ		
General: —							
Executive department,					\$10,376	00	
Accounting department,					7,548		
Financial department,		· ·	· ·		2,963		
Legal department, .	Ì		i		6,208		
Total general, .			Ĭ				\$27,095 49
Commercial: —	Ť	·	•	·			ψ21,000 10
Commercial supervision,					\$26,251	08	
Advertising,		·	•	•	6,555		
Canvassing,	•	•	•	•	20,533		
Directory,	•	•	•	•	12,564		
Revenue accounting, .		•	•	•	23,956		
Revenue collecting, .	•	•	•	•			
Pay-station commissions,	•	•	•	•	27,028		
Uncollectible accounts,	•	•	•	•	7,074 37		
Total commercial	•	•	•	•	91	50	104.000.00
Traffic: —	•	•	٠	•			124,000 90
Traffic supervision, .					890 647	09	
a	٠	•		•	\$20,647		
	•	•	•	•	6,507		
Operators' wages, Operating clerical wages,	•	•	•	•	111,805		
Rest and lunch rooms,	٠	•	•	•	5,170		
•	•	•	•	•	1,776		
Operators' schooling, .	•	•	•	•	6,169		
Central office rent, .	•	•	•		12,199		
Pay-station expense, .	•		•		691		
Other operating expenses,		•			9,385	67	
Total traffic,						—	174,351 97
						_	
Amount carried forward,	•	٠	•	•		٠	\$325,448 36

						Iten	ΩS	Totals.	
Amount brought forward,								\$325,448	36
Operation — Concluded.	c								
Rights, privileges and use of	proj	perty:	_		641	600	40		
Rental of instruments, Conduit, pole and other sp		•	•	•	\$41	.,08U	0.0		
Total rights, privileges	pacc,	•	•	•		,538	96	40.010	90
Insurance,								49,219 2,214	
insurance,	•	•	•	•	•	•		2,214	- 21
Total operation, .								\$376,882	01
Maintenance:—			•	·	·		·	\$0.0,002	01
Repairs:									
Supervision,					\$29	.664	09		
A ***-11	·					,356			
Underground plant, . Central office equipment,						,090			
Central office equipment.			·			,647			
Subscribers' equipment,		. 1				,869			
Real estate,						,524			
				_		,,,,,,			
Total repairs, .					148	.153	16		
Station removals and change	es,				30	,728	41		
Total current maintena	nce,							¹ 178,881	57
a o our our or main cha								196,055	
Depreciation of plant, . Total expenses, not inc	ludin	g taxe				•		² \$751,819	37
Depreciation of plant, . Total expenses, not inc	ludin				· EET.	•			37
Depreciation of plant, $$. Total expenses, not inc $$ GE $$ Assets.	ludin	g taxe			EET.				37
Depreciation of plant, . Total expenses, not inc GE Assets. Exchange construction: —	ludin	g taxe				. 871	. 04		37
Depreciation of plant, . Total expenses, not inc GE Assets. Exchange construction: — Right of way,	ludin	g taxe	LANC:		\$60	,871 ,713		² \$751,819	37
Depreciation of plant,	ludin	g taxe			\$60 1,157	,713	59	² \$751,819	37
Depreciation of plant, Total expenses, not inc GE Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Submarine lines.	ludin	g taxe	LANC:	E SHE	\$60 1,157 812	,713 ,627	59 97	² \$751,819	37
Depreciation of plant, Total expenses, not inc GE Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Submarine lines.	ludin	g taxe	LANC:	E SHE	\$60 1,157 812	,713	59 97 10	² \$751,819	37
Depreciation of plant,	ludin	g taxe	LANC:	E SHE	\$60 1,157 812 4 323	,713 ,627 ,925 ,194	59 97 10 36	² \$751,819	37
Depreciation of plant,	ludin	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507	,713 ,627 ,925 ,194 ,704	59 97 10 36 43	² \$751,819	
Depreciation of plant, Total expenses, not incomplete the second of the	ludin	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507	,713 ,627 ,925 ,194 ,704	59 97 10 36 43	² \$751,819	
Depreciation of plant, Total expenses, not inc GE Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Submarine lines, Central office equipment, Subscribers' station equipme Total exchange construct	ludin	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507	,713 ,627 ,925 ,194 ,704	59 97 10 36 43	² \$751,819	
Depreciation of plant, Total expenses, not inc GE Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, .	ent,	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507 \$18 539	,713 ,627 ,925 ,194 ,704 ,881 ,715	59 97 10 36 43 59 01	² \$751,819	
Depreciation of plant, Total expenses, not inc GE Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines,	ent,	g taxe	LANC:	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 	² \$751,819	
Depreciation of plant, Total expenses, not ince Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Submarine lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Submarine lines	ludin	g taxe	LANC:	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715	59 97 10 36 43 	² \$751,819	49
Depreciation of plant, Total expenses, not inc Gre Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Total toll construction,	ent,	g taxe	LANC:	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 	² \$751,819 \$2,867,036 739,456	49
Depreciation of plant, Total expenses, not inc Gre Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Total toll construction,	ent,	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 	² \$751,819 \$2,867,036 739,456 280,610	49 71 82
Depreciation of plant, Total expenses, not ince Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Submarine lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Total toll construction, Construction in process, . Real estate required for operat	NERA	g taxe	LANC:	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 	² \$751,819 \$2,867,036 \$39,456 280,610 141,143	49 71 82 21
Depreciation of plant, Total expenses, not ince Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Submarine lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Submarine lines, Total toll construction, Construction in process, Real estate required for operat Office furniture and fixtures,	CNERA	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 	² \$751,819 \$2,867,036 \$39,456 280,610 141,143 17,157	49 71 82 21 83
Depreciation of plant, Total expenses, not inc Gre Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Total toll construction,	NERA	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 	² \$751,819 \$2,867,036 \$39,456 280,610 141,143	49 71 82 21 83
Depreciation of plant, Total expenses, not inc Gre Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Total toll construction, Construction in process, . Real estate required for operat Office furniture and fixtures, Tools and vehicles,	CNERA	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 59 01 16 95	² \$751,819 \$2,867,036 \$2,867,036 280,610 141,143 17,157 32,168	71 82 21 83 44
Depreciation of plant, Total expenses, not ince Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Submarine lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Total toll construction, Construction in process, . Real estate required for operat Office furniture and fixtures, Tools and vehicles, Total plant account, .	ent, ion a	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 59 01 16 95	² \$751,819 \$2,867,036 \$39,456 280,610 141,143 17,157 32,168 \$4,077,573	71 82 21 83 44
Depreciation of plant, Total expenses, not inc Gre Assets. Exchange construction: — Right of way, Overhead lines, Underground lines, Central office equipment, Subscribers' station equipme Total exchange construct Toll construction: — Right of way, Overhead lines, Underground lines, Underground lines, Total toll construction, Construction in process, . Real estate required for operat Office furniture and fixtures, Tools and vehicles,	ent, ion a	g taxe	LANC	E SHE	\$60 1,157 812 4 323 507 \$18 539 165	,713 ,627 ,925 ,194 ,704 ,881 ,715 ,062	59 97 10 36 43 59 01 16 95	² \$751,819 \$2,867,036 \$2,867,036 280,610 141,143 17,157 32,168	71 82 21 83 44

 $^{^{\}rm 1}$ Total current maintenance includes station removals and changes, which account in 1910 was included in reconstruction.

² In report of 1910, total of all operating expenses included taxes.

					Item	s.	Totals.
Amount brought forward,							\$4,077,663 50
							. ,,
Current assets: —					ØCC 440	01	
Cash on hand,	•	010	66,206	11	\$66,440	01	
·	. •	\$15	0,200	11			
Less uncollectible reserve,	•		4,734	40	191 471	65	
Supplies on hand, .					131,471 130,546		
Unexpired insurance, .	•	•	•	•	2,737		
Total current assets, .	•	•	•	•	2,101		331,195 50
Total cultent assets, .	•	•	•	•			301,190 30
Total debits,							\$4,408,859 00
Liabilities							
Capital stock, common, .	•						\$600,000 00
	•	•	•	•	• •	•	200,000 00
Bonded debt,	•	•	•	•	• •	•	200,000 00
					\$1,525,000	00	
Audited vouchers and accoun		·			596,324		
Unearned subscribers' rentals				i.	4,588		
Total current liabilities,	•	Ċ	•	·			2,125,912 77
Accrued liabilities: —			•				2,120,012 11
Interest accrued but not due					\$833	34	
Taxes accrued but not due.					7,694	07	
Reserve for directories, .					1,601		
Vouchers and accounts accru	ied bu	it no	t due,		5,814		
	•						15,943 34
Sinking and other special funds	s: —						-1,111
Maintenance,					\$333,064	88	
Fire insurance,					29,644		
Accident insurance, .					9,004	11	
To meet plant supervisory e	xpens	es,			6,162	18	
To meet stable and garage es	xpens	es,			701	16	
To meet supply department	exper	ises,			1,313	63	
							379,890 78
1908 inventory adjustment,							862,159 01
Total liabilities, .							\$4,183,905 90
Balance, surplus,	•	•	•	•			224,953 10
Dalance, surprus,	•	•	•	•		•	224,933 10
Total credits,							\$4,408,859 00
Pao	arran A	arn T	loss A	١٠٥٥	TTATE		
1 RO	LIL A	11D I	2000 I	1000	Dr.		Cr.
Balance from previous year,							\$188,315 63
Gross earnings from operation,							970,346 74
Miscellaneous income, .							860 05
Expenses, not including taxes,					\$751,819	37	
Rebates and discounts, .					521	35	
Interest on funded debt, .					10,000	00	
Interest on floating debt, .					116,236	48	
Taxes,					18,492	12	
Dividends declared on stock: -							
1½ per cent., due Sept. 30, 19		•	•		9,000		
$1\frac{1}{2}$ per cent., due Dec. 31, 19			•		9,000		
1½ per cent., due March 31,		•	•		9,000		
$1\frac{3}{4}$ per cent., due June 30, 19)11,	•	•	•	10,500		
Balance, surplus,	•	•	•	•	224,953	10	
					\$1,159,522	42	\$1,159,522 42

PLANT ACCOUNTS (ADDITIONS AND DEDUCTIONS DURING THE YEAR).

Additions.						
Exchange construction: —				Items		Totals.
Right of way,				\$4,565	05	
0 1 111				119,740		
Underground lines,				30,211		
Submarine lines,				198		
Central office equipment, .				7,464		
Subscribers' station equipment,				54,226		
Total exchange construction an						\$216,406 77
Toll construction: —						***************************************
Right of way,				\$265	37	
Overhead lines,				12.632	34	
Underground lines,				2,432	17	
Submarine lines,				274		
Total toll construction, .						15,604 53
Construction in process,						208,818 46
Real estate required for operation,						423 31
Office furniture and fixtures, .						10,021 11
Tools and vehicles,						4,141 38
The field of Marketine					-	2/27 /17 70
Total additions,	•	•	•		•	\$455.415 56
Deductions.						
Property sold: —						
Exchange construction: —						
Overhead lines				\$112	83	
Underground lines,				302		
Central office equipment, .				3	00	
Subscribers' station equipment,				64	-	
Total deductions,						483 09
					-	
Net additions to plant accoun	nt for	the y	ear,			\$454,932 47

STATISTICAL INFORMATION.

	,				In Massachusetts.	Outside Massachusetts.	Whole System.
Number of subscribers,					28,222	289	28,511
Number of stations.					29,261	306	29,567
Number of operators,					270	-	270
Number of pay stations,					1.039	17	1.056
Number of subscribers of		lines.			24,805	281	25,086
Number of subscribers of					3,417	8	3,425
Underground system: -		,					.,
Conduit, feet, .					328,052	- 1	328,052
Duct, feet,					1,441,455	-	1,441,455
Cable, feet,					582,000	_	582,000
Wire, miles,			Ĭ.		27,492	- 1	27,492
Submarine system: -							,
Cable, feet,					22,602	7,298	29,900
Wire, miles,				-1	115	66	181
Overhead system: -		•				•	-01
Pole line, miles,					1.890	60	1,950
Copper wire, miles,					25,338	346	25,684
Iron wire, miles,					11,344	427	11,771

Nonoperating and Small Telephone Companies.

BEECHMONT INDEPENDENT TELEPHONE COMPANY.

Location of principal business office: East Windsor, Mass.

Date of organization: January, 1906.

Archie L. Tower, William R. Pierce,

Date of annual meeting: the last Saturday in June.

Date when company began to give service: February, 1906.

Service is given by this company over its own lines in the towns of Cummington, Peru and Windsor.

GENERAL OFFICERS AND OFFICIAL TITLES.

President.

Manager and Treasurer.

Ada L. Pierce, .		•	•	•	•	•	٠	Secre	tary.		
		Dire	CTORS	S AND	RESI	DENC	ES.				
Archie L. Tower.								East	Windsor,	Mass.	
Wm. R. Pierce, .						·			Windsor,		
C. H. Ball, .									Windsor,		
O. D. Jacobs, .								East	Windsor,	Mass.	
J. A. Shaw, .								East	Windsor,	Mass.	
G. L. Miner, .		•						East	Windsor,	Mass.	
				Саріт							
0 1/1 111				CAPIT	AL.					0.500	00
Capital paid in, .		•	•	•	•	•	٠	•	•	\$500	00
Number of stockholde	ore										8
Number of stockholde							:	•	•		8
TVUIDEL OF SCOCKHOICE	515 10	esiden	. 0 111 1	assa	Luse	,00,	•	•	•		3
		EAR	RNING	S AND	Exp	ENSES	5.				
Gross earnings, .										\$60	00
Expenses,										4	92
Net earnings, .			•			•		•		\$55	
Dividends,		•		•	•	•	٠	•	•	58	00
D C ' (C)											
Deficit for the ye			•	•	•	•	٠	•	•		92
Surplus balance from	last	year,	•	•	•	•	•	•	•	58	00
Surplus June 30,	191	1,								\$55	08
		GEN	ERAL	BALA	NCE	SHEET	г.				
	1				,						
	Asse									\$500	00
Property accounts, . Notes and accounts re			•	•	•	•	•	•		60	
Notes and accounts re	ecerv	able,	•	•	•	•	•	•	•	00	
Total debits, .										\$560	00

HI	GHV	VAY	COM	MISSI	ON

[Pub. Doc.

	Liabilit								
Capital stock,	Liaouit	ies.							@=00 00
Other liabilities,		. •	•	•	• •	•	•	•	\$500 00
		•	•	•	•	•	•	•	4 92
Surplus,		•	•	•	•	•	•	•	55 08
Total credits,								_	erco 00
Total credits,		•	•	•	•	•	•	•	\$560 00
	S	TATIST	FICAL	Info	RMATIC	ON.			
Number of subscriber	rs								10
Number of instrumer		•	•	•	•	•	•	•	13
Number of subscriber		rtve lin	•	•	•	•	•	•	10
Overhead system: —		,1 ty 111.	ics,	•	•	•	•	•	10
Pole line, miles.									6
Iron wire, miles,	•	•	•	•	•	•	•	•	6
rion wire, mines,	•	•	•	•	•	•	•	•	0
DEDILLE	00000	4370	0.11	T			. ~	3 em 1	
BERNARD	DSTON	AND	GIL	L TI	SLEPI	HON	E CO	MPA	INY.
Location of principal	busines	s office	e: Ber	nards	ton, N	Iass.			
Date when company									
Service is given by t							e tow	ns of	Bernardston.
Gill and Leyden		pu-5 (01		01	. Dermaraston,
		0		0					
			YERAL	OFFI	CERS.				
A. H. and C. R.	Nelson,		•				٠.		Managers.
			CAP	ITAL.					
Capital paid in,									\$4,000 00
Capital paid in,	•	•	•	•	•	•	•	•	Ψ1,000 00
	I	EARNII	NGS Al	ND E	KPENS	ES.			
Gross earnings,									\$1,266 92
Expenses,	• •	•	•	•	•	•	•	•	473 58
Expenses, .		•	•	•	•	•	•	•	410 00
Net earnings, .									\$793 34
Net earnings,		•	•	•	•	•	•	•	\$120 94
		_	-		~				
	(GENER	AL BA	LANC	E SHE	ET.			
	Assets.								
Property accounts,									\$4,000 00
Accounts receivable,									300 00
Supplies on hand,									500 00
·								_	
Total debits,									\$4,800 00
	Liabilii	ties.							
Capital stock, .									\$4,000 00
Balance, surplus,									800 00
-u-u-u-y -u-p-u-y								_	
Total credits,									\$4,800 00
100010100,									42,000
		2	mro · ·	Tarmo	D	037			
		STATIS	TICAL	INFO	KMATI(UN.			
Number of subscribe									109
Number of instrume									112
Number of operators	š, .								3

Number of pay stations, .

No. 54.] APPE	NDIA	A.		197
Number of subscribers on party lines,				108
Number of subscribers on single lines,				1

Overhead system: -Pole line, miles, 43 115 Iron wire, miles,

NOTE. - "Tolls went to operators for their fees, let it be whatever it is, probably amounting to about \$25 per month to them. A record is kept by the New England Telephone and Telegraph Company of the tolls, and must be returned by them."

THE BOLTON TELEPHONE COMPANY.

Location of principal business office: Bolton, Mass.

Date of organization: January, 1906. Date of incorporation: January, 1906. State in which incorporated: Massachusetts.

Edward D. Emerson.

Date of annual meeting: January 15.

Date when company began to give service: January, 1906.

Service is given by this company over its own lines in the town of Bolton.

GENERAL OFFICERS AND OFFICIAL TITLES.

President.

\$1,581 68

21 86

Franklin J. Hamblin,		* :	•	•	•	•	Treast	irer.	
	DIRECT	ORS AN	D RE	SIDEN	CES.				
Edward D. Emerson,							Bolton	n, Mass.	
William E. Litchfield							Newto	on, Mass.	
Franklin J. Hamblin,	•	•	•	•	•	•	Bolton	n, Mass.	
		CAF	ITAL.						
Capital paid in, .					•			\$1,500	00
Number of stockholders,									20
Number of stockholders re	esident i	n Mass	achus	etts,		٠	•		20

		LAR	NINGS	AND	EXP	ENSES.	•				
Gross earnings: —											
Exchange service,									. 8	1,302	08
Toll service,										246	91
Miscellaneous earn							•	•		21	86
Total gross earn	ings,								. \$	1,570	85
Expenses, .	•			•	•		•	•	•	1,081	05
Net earnings,										\$489	80
Dividends, .						•			•	60	00
Surplus for year	Γ,									\$429	80
Surplus balance from										1,151	88

Miscellaneous charges to surplus, Surplus June 30, 1911, \$1,559 82

13 00

\$521 00

GENERAL BALANCE SHEET.

	As	sets.									
Property accounts,										\$2,138	37
Notes and accounts	s rece	eivable	, .							99	24
Cash on hand, .										260	02
Reserve fund, .		•						•		676	34
Total debits,										\$3,173	97
	Lie	abilitie	8.								
Capital stock, .										\$1,500	00
Accounts payable,										114	15
Balance, surplus,			•		•	•				1,559	82
Total credits,										\$3,173	97
		ST	ATIST	ICAL	Info	RMATI	ON.				
Number of subscrib	ers.										67
Number of instrum	ents.										69
Number of operato	rs,										1
Number of pay star											1
Number of subscrib	ers o	n part	y line	es,							67
Overhead system: -									•		
Pole line, miles,											22
Iron wire, miles,											54

CHELMSFORD TELEPHONE COMPANY.

Location of principal business office: Chelmsford, Mass.

Date of organization: Dec. 23, 1903.

Cash on hand,

Total debts.

Date of annual meeting: first Monday in January.

Date when company began to give service: Jan. 4, 1904.

Service is given by this company over its own lines in the town of Chelmsford.

GENERAL OFFICERS AND OFFICIAL TITLES.

Joseph E. War. Eben T. Adam								Presi Treas	d Clerk.	
		E	ARNIN	GS Al	ND E	KPENS	ES.			
Gross earnings,									\$180	00
Expenses, .			•	•	•				158	82
Net earnings,									\$21	18
-		G	ENERA	L BA	LANC	е Ѕні	EET.			
	As	sets.								
Property accounts,									\$500	00
Supplies on hand									8	00

None.

	Lia	biliti	es.								
Capital stock, .										\$500	00
Balance, surplus,		•	•	٠	•	•				21	00
Total credits,		•							•	\$521	00
		S	TATIST	FICAL	Info	RMATI	ON.				
Number of subscribe	ers,										20
Number of instrume	nts,										24
Number of operator	s,										1
Number of subscribe	ers or	n par	ty lin	es,							20
Overhead system: -	-										
Pole line, miles,			•		•	•					7
Iron wire, miles,	•	•	•	٠	•	•	•	•			14

COLUMBIA AND RENSSELAER TELEPHONE AND TELEGRAPH COMPANY.

Location of principal business office: West Lebanon, N. Y.

Date of organization: March, 1894. Date of incorporation: March, 1894. State in which incorporated: New York.

Date of annual meeting: July 5.

Date when company began to give service: March, 1894.

Service is given by this company over its own lines in the town of Hancock, Mass.,

and in the State of New York.

GENERAL OFFICERS AND OFFICIAL TITLES.

Abner S. Haight, President.

Warren Fowler, . . . Vice-President and General Manager.

Mary J. Fowler, . . . Secretary and Treasurer.

DIRECTORS AND RESIDENCES.

CAPITAL.

Capital paid in,	•	•	•	•	•	•	•	•	\$50,000	UU
Number of stockhol	lders,									7

Number of stockholders resident in Massachusetts, . .

		E	RNIN	GS A	ND E	XPENS	ES.			
Gross earnings, 1										\$12,215 91
Expenses, .										10,622 48
Net earnings,										\$1,593 43
Interest payments	and to	axes,								244 27
77 . 0.									_	
Net profit,	٠	•	٠	•	•	•	•	•	•	\$1,349 16
Dividends, .	•	•	•	•	•	•	•	•	•	900 00
Surplus for yea	ar,									\$449 16
		GE	NERA	AL BA	LANC	Е Ѕнв	ET.			
	Ass	sets.								
Property accounts,										\$31,699 07
Notes and accounts										1,762 19
Cash on hand,							•	•		355 85
TD-4-1 A-1-24										A00 017 11
Total debits,	•	•	•	•	•	•	•	•	•	\$33,817 11
	Lia	bilitie	8.							
Capital stock, .										\$30,000 00
Accounts payable,										1,074 48
Balance, surplus,										2,742 63
Total credits,										\$33,817 11
		ST	ATIST	CICAL	Info	RMATI	ON.			
Number of subscrib										775
Number of instrum										796
Number of operator										11
Number of pay sta						•	•			10
Number of subscrib					•	•	•	•		765
Number of subscrib		n sing	le lin	es,	•	•	•	•		10
Overhead system:										1.70
Pole line, miles, Iron wire, miles.		•	•	•	•	•	•	•		150 750
from wire, miles.										700

Note. - "We have no poles in Massachusetts. Have one circuit on poles of other lines, about one mile in length, with one subscriber at \$60 per annum. Also have fourteen subscribers on instruments connected to lines owned by farmers which includes everything we have in Massachusetts. These 14 instruments pay \$7.50 per annum. The toll business done in the State will not exceed \$50 per year."

CRESCENT TELEPHONE COMPANY.

Location of principal business office: New Salem, Mass.

Date of organization: 1902.

Date when company began to give service: October, 1902.

Service is given by this company over its own lines in the towns of New Salem and Orange.

¹ Gross earnings in Massachusetts about \$215.

GENERAL OFFICER.												
E. F. Stowell,				••					. 0	wner.		
				CAPI	ITAL.							
Capital paid in,				٠	٠	٠	•	•	•	\$500	00	
		-			_							
		EA	RNING		D Ex	PENS:	ES.			2112	00	
Gross earnings,	•				•	٠				\$146 18		
Expenses, .	•	•	•	•	٠	•	•	•	·	10		
Net earnings,										\$128	00	
		GE	NERA	L BAI	LANCE	SHE	ET.					
	Ass	ets.										
Property accounts,										\$500		
Supplies on hand,					•					10	00	
Total debits,										\$510	00	
	Lia	bilitie	8.									
Capital stock, .										\$500	00	
Balance, surplus,										10	00	
Total credits,										\$510	00	
		St.	ATISTI	CAL]	NFOR	MATIC	N.					
Number of subscrib											21	
Number of instrume											22	
Number of subscrib Overhead system: -		part	y line	s,	•	٠	٠	•			21	
Pole line, miles,											13	
Iron wire, miles,								i.			26	

THE FARMERS' MUTUAL TELEPHONE COMPANY OF BRISTOL COUNTY.

Location of principal business office: Norton, Mass.

Date of incorporation: Sept. 2, 1902.

State in which incorporated: Massachusetts.

Date of annual meeting: second Tuesday in May.

Date when company began to give service: previous to January, 1903. Service is given by this company over its own lines in Norton, Mass.

GENERAL OFFICERS AND OFFICIAL TITLES.

Arthur M. Round,				President.
Charles A. Ratcliffe,				Clerk and Treasurer.
Frank A. Clapp.				Superintendent.

	DIRE	ECTORS	AND	RES	IDENCE	s.			
Arthur M. Round,							Norton,	Mass.	
Samuel V. Cole.									
Homer L. Lane.							Norton,		
Frank A. Clapp,									
***							,		
			CAPI	TAL.					
Capital paid in, .	•	•	•	•	•	•	•	. \$1,03	50 00
Number of stockholders									13
Number of stockholders	reside	nt in	Massa	chus	etts.	·			13
Amount of notes outstar								. 815	25 00
			·		·	Ť	·		-0 00
	EA	RNING	S AN	D Ex	PENSES	5.			
Gross earnings, .								. \$15	23 00
Expenses,								. 24	40 00
Deficit for year,								. \$1:	17 00
Deficit, June 30, 1911,								. 8	89 71
	GE	NERA	L BAL	ANCE	SHEE	т.			
	sets.								
Property accounts, .								. \$1,20	00 00
Cash on hand, .								. 3	33 29
Balance, deficit, .								. 8	89 71
Total debits, .	•	•	•	•	•	٠	•	. \$1,32	23 00
Lie	abilitie	·S.							
Capital stock,								. \$1,03	50 00
Notes payable, .								. 12	25 00
Accounts payable, .								. 14	18 00
Total credits, .								. \$1,32	23 00
	STA	TISTIC	CAL IN	FORM	MATION				
Number of subscribers,									15
Number of instruments,									21
Number of subscribers of	n part	v line							13
Number of subscribers of									2
Overhead system: -									
Overhead system: — Pole line, miles, .									6

GRANBY TELEPHONE AND TELEGRAPH COMPANY.

Location of principal business office: Granby, Mass.

Date of organization: February, 1903. Date of incorporation: February, 1903. State in which incorporated: Massachusetts.

Date of annual meeting: third Monday in January. Date when company began to give service: May, 1903.

Service is given by this company over its own lines in the towns of Granby and Ludlow.

GENI	JIAL () F F I C I	INS A	ND O	FFICIA		. IIIIII.		
George R. Smith,							Presiden	t.	
Winfred F. Forward							Manager		
Willard A. Taylor,							Secretary	and Treasur	er.
Clifford W. Ferry,							Auditor.		
Ť									
	DIRE	CTORS	AND	RESI	DENCI	es.			
George R. Smith,							Granby,	Mass.	
H. H. Moody, .									
D. C. Nutting, .							Granby,		
W. F. Forward,							Granby,		
D. R. Barnes, .		•					Granby,		
G. F. Eastman,							Granby,	Mass.	
H. S. Taylor, .			Ì	i			Granby,		
22, 21 20, 101,			·	·	·	·	Grandy,	1.14001	
			Сарі	TAL.					
Capital paid in, .								\$1,200	00
Number of starble 11									25
Number of stockholders,						•			35
Number of stockholders						•	•		34
Amount of stock held in	Massa	ichuse	tts,	•	٠	•	•	\$1,100	00
	EΑ	RNING	S AN	D Ex	PENSE	s.			
Gross earnings: —									
Exchange service,	•		•	•	•	•		\$801	
Toll service, .	•	•	•	•	•	٠		149	53
Total areas cornings								6051	20
Total gross earnings		•	•	•	•	•		\$951	
Expenses,	•	•	•	•	•	•		624	62
Net earnings, .	•	•	•	•	•	•		\$326	
Dividends,	•	•	٠.	•	•	٠	. (8)	. 96	00
Surplus for year,						•		\$230	
Surplus balance from last	t year,							176	97
									_
Surplus June 30, 191	1,				•	•		\$407	67
	GE	NERAL	Rar	ANCE	STERR				
4.00		NEKAL	DAL	ANCE	SHEE	T.			
Ass Property accounts, .								61 000	00
				•	•	•		\$1,200	
Cash on hand and due fr	om su	DSCFID	ers,	•	•	٠		407	67
Total debits, .								\$1,607	67
	bilities								
Capital stock,								\$1,200	00
Accounts payable, .								29	
Balance, surplus, .								378	42
Total credits, .								\$1,607	67

GENERAL OFFICERS AND OFFICIAL TITLES.

\$98 59

	STA	TISTIC	AL .	Inform.	ATION		
Number of subscribers,							61
Number of instruments,							61
Number of operators,							4
Number of pay stations,							1
Number of subscribers on	party	lines,	,				61
Overhead system: —							
Pole line, miles, .							15
Iron wire, miles							30

HEATH LOCAL TELEPHONE COMPANY.

Location of principal business office: North Heath, Mass.

Date of organization: Nov. 1, 1906.

Deficit for the year, . . .

Date when company began to give service: Nov. 1, 1906.

Service is given by this company over its own lines in the town of Heath.

GE	CNERAL	Offic	CERS A	VND (FFICI	AL T	TITLES.			
Isaac W. Stetson,	•	•	٠			٠	President Manage		Gene	ral
Clifford J. Hager,		•					Clerk and		er.	
	Dr	RECTO	RS AN	D RES	SIDEN	CES.				
Isaac W. Stetson,							North He	ath M	065	
Clifford J. Hager			•	•	•		Dell, Mas		100.	
			•		•		D 11 3.6			
Fred Stone, .							Cyrus, M			
			C							
			CAP	ITAL.						
Capital paid in, .			٠	٠	•	•			\$810	00
Number of stockholde	ers, .									10
Number of stockholde	rs resid	lent in	Mass	achus	etts,	•				10
	F	EARNIN	IGS Al	od Ez	(PENS	ES.				
Gross earnings: —										
Exchange service,								3	\$648	00
Toll service, .	•	•		٠	٠	٠			15	00
Total gross earning	ngs, .							- (\$663	00
Expenses,	· ·								713	01
Net deficit									\$49	99
Dividends,	·		·						48	60

GENERAL BALANCE SHEET.

	As	sets.							
Property accounts,									\$1,100 00
Supplies on hand,									15 00
Cash on hand,									46 30
Total debits,								,	\$1,161 30
	Lie	abiliti	es.						
Capital stock, .									\$810 00
Accounts payable,									190 51
Balance, surplus,							•		160 79
Total credits,	;								\$1,161 30
		S	TATIST	TICAL	Infoi	RMATI	ON.		
Number of subscrib	ers,								81
Number of instrum	ents,								82
Number of operato	rs,								2
Number of pay star	tions	, .							4
Number of subscrib	ers o	n par	ty lin	es,					81
Overhead system: -	_								
Pote line, miles,									22
Iron wire, miles,									64

NOTE. — "Free service was to be given to all of our subscribers to the Heath Telephone Company for like service to us in the town of Charlemont, Mass."

THE HIGHLAND TELEPHONE COMPANY.

Location of principal business office: Cooleyville, Mass.

Date of organization: May 22, 1907. Date of incorporation: Aug. 9, 1907.

State in which incorporated: Massachusetts. Date of annual meeting: first Monday in May.

Date when company began to give service: Sept. 1, 1901.

Service is given by this company over its own lines in the towns of Leverett, New

Salem, Prescott and Shutesbury.

GENERAL OFFICERS AND OFFICIAL TITLES.

Willard Putnam, President.

Rawson King, Secretary and Treasurer.

DIRECTORS AND RESIDENCES.

Willard Putnam,				Cooleyville, Mass.
Rawson King, .				Cooleyville, Mass.
Harriet B. Putnam.				Coolevville, Mass.

CAPITAL.

Capital paid in,		•		•						\$5,000	00
Number of stockho	olders,	٠		. :	:						4
Number of stockho	olders	reside	nt in	Mass	achus	etts,	•				4
Amount of notes of	utstan	ding,	•	•	•	٠	•	•	•	\$800	00
		ъ.			. E.	(PENS					
Gross earnings: —		£Α	RNIN	GS AN	(D E2	CPENS.	ES.				
										61 250	0.1
Exchange service		•	•	•	•	•	•	•	•	\$1,352	
Toll service,	•	•	•	•	•	•	•	•		650	-00
Total gross ear	rnings									\$2,002	31
Expenses, .		•								1,425	
,											
Net earnings,										\$576	98
Interest payments,										48	00
											_
Net profit,										\$528	98
Dividends, .										120	00
Surplus for year	ar,									\$408	98
Surplus balance fro	om las	t year	, .							754	39
											_
Surplus June 3	30, 19	11,	•	•	•	•	•	•	•	\$1,153	37
		GE	NERA	L_BA	LANCI	е Ѕне	ET.				
	Ass		NERA	L_BA	LANCI	E SнE	ET.				
Property accounts.		sets.	NERA	L_BA	LANCI	SHE	ET.			\$5,800	00
Property accounts,		sets.		L_BA	LANCI	SHE	ET.	:		\$5,800 500	
Notes and accounts	s recei	sets. vable,		L_BA	LANCI	SHE	ET.		•	500	00
Notes and accounts Supplies on hand,		sets. vable,		L_BA	LANCI	: :	ET.		· ·	500 100	00 00
Notes and accounts Supplies on hand, Cash on hand,	s recei	sets. vable,		L_BA	LANCI	· · · ·	ET.			500 100 489	00 00 85
Notes and accounts Supplies on hand,	s recei	sets. vable,		L_BA	·	· · · · · · · · · · · · · · · · · · ·	ET.		· · ·	500 100	00 00 85
Notes and accounts Supplies on hand, Cash on hand, Other assets,	s recei	sets. vable,		L_BA	LANCI	: SHE	ET		:	500 100 489 63	00 00 85 52
Notes and accounts Supplies on hand, Cash on hand,	s recei	sets. vable,		L_BA	LANCI	: SHE				500 100 489	00 00 85 52
Notes and accounts Supplies on hand, Cash on hand, Other assets,	s recei	sets. vable,		L_BA	LANCI	: SHE			:	500 100 489 63	00 00 85 52
Notes and accounts Supplies on hand, Cash on hand, Other assets,	s recei	vable,		L_BA	·	SHE				500 100 489 63	00 00 85 52 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, . Total debits,	s recei	vable,		L_BA	LANCI	SHE	ET	:	:	500 100 489 63 \$6,953	00 00 85 52 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, . Total debits, Capital stock, .	s recei	vable,		L_BA	· · · · ·	: SHE	ET.		: : : :	\$6,953 \$5,000	00 00 85 52 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable,	s recei	vable,		L_BA	· · · · ·	SHE				\$6,953 \$5,000 800	00 00 85 52 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable,	s recei	vable,		L_BA	LANCI	SHE				\$6,953 \$5,000 800	00 00 85 52 37 00 00 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus,	s recei	vable,		L_BA	·	SHE				\$6,953 \$5,000 \$80 1,153	00 00 85 52 37 00 00 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus,	s recei	vable,				SHE				\$6,953 \$5,000 \$80 1,153	00 00 85 52 37 00 00 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus,	. s recei	vable,								\$6,953 \$5,000 \$80 1,153	00 00 85 52 37 00 00 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus, Total credits, Number of subscrib	coers,	sets. vable, bilities STA	· · · · · · · · · · · · · · · · · · ·							\$6,953 \$5,000 \$80 1,153 \$6,953	00 00 85 52 37 00 00 37 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus, Total credits, Number of subscrib Number of instrum	Lia coers, ents,	sets. vable, bilities STA								\$6,953 \$5,000 \$80 1,153 \$6,953	00 00 85 52 37 00 00 37 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus, Total credits, Number of subscrib Number of instrum Number of operato	Lia Lia coers, ents, rs,	sets. vable, bilities STA								\$6,953 \$5,000 \$80 1,153 \$6,953	00 00 85 52 37 00 00 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus, Total credits, Number of subscrib Number of instrum Number of operato Number of pay star	Lia Lia cers, ents, rrs, tions,	sets. vable, bilities STA	ATIST:							\$6,953 \$5,000 \$80 1,153 \$6,953	00 00 85 52 37 00 00 37 37 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus, Total credits, Number of subscrib Number of instrum Number of operato Number of pay star Number of subscrib	Lia Lia constructions, series of the constructions of the construction of the construction of the construction of the construction of	sets. vable, bilities STA	ATIST:							\$6,953 \$5,000 \$80 1,153 \$6,953	00 00 85 52 37 00 00 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus, Total credits, Number of subscrit Number of instrum Number of operato Number of pay stat Number of subscrit Overhead system:	Lia Lia Lia coers, ents, rst, tions,	sets. vable, bilities STA	ATIST:							\$6,953 \$5,000 \$80 1,153 \$6,953	00 00 85 52 37 00 00 37 37 37
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Notes payable, Balance, surplus, Total credits, Number of subscrib Number of instrum Number of operato Number of pay star Number of subscrib	Lia	sets. vable, bilities STA	ATIST:							\$6,953 \$5,000 \$80 1,153 \$6,953	00 00 85 52 37 00 00 37

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LITTLETON TELEPHONE ASSOCIATION.

Location of principal business office: Littleton, Mass.

Date of organization: April 18, 1904.

Iron wire, miles, .

Date of annual meeting: first Monday in April.

Date when company began to give service: October, 1904.

Service is given by this company over its own lines in the towns of Acton, Harvard, Littleton and Westford.

GENERAL OFFICERS AND OFFICIAL TITLES.

	GENE	RAL	OFFI	CERS .	AND ()ffici	AL .	l'ITLES.			
Frank B. Pries	t.							Presid	lent.		
John M. Harty			·							Treasur	or
Josiah P. Thac		•	•	•	•	•		Mana	_	1 / 6484/	c/ •
Josian F. Thac	ner,	•	•	•	•	•	•	Mana	ger.		
				C							
				CAP	ITAL.						
Capital paid in,	•	•	٠	•	•	•	٠	•	•	\$1,500	00
Number of stockhol	lders.										60
Number of stockhol	lders	reside	nt in								60
						,					
		E.	DATES	IGS Al	n Fr	TDENIG:	TO CI				
Gross earnings: —		152	KNID	GS AI	אבב עו	CPENS.	ES.				
Exchange service.										\$600	00
Toll service,			•	•	•	•	•	•	•		00
Ton service,	•	•	•	•	•	• •	•	•	•	10	00
Total gross ear	nings									\$675	00
Expenses, .			•	•	•	•	•	•	•	465	
L'Apenses, .	•	•	•	•	•	•	•	•	•	400	20
Net earnings,										\$209	72
2100 002222	•			•	•	•	•	•	·	\$200	• ~
		~		70		~					
		GE	NER.	AL BA	LANCI	E SHE	ET.				
	Ass										
Property accounts,										\$1,500	00
Notes and accounts										278	30
Cash on hand,											44
							Ť	, i			
Total debits.										\$1,820	74
						·	·	·	·	\$2,020	• •
	Lio	bilitie	2								
Capital stock,										\$1,500	OΩ
Accounts payable,		•		•	·	•	•		•	39	
Balance, surplus,		•	•	•		•	•			280	
Darance, surprus,	•	•	•	•		•	•		·	200	
Total credits,										\$1,820	74
	•				•	·	·	•	•	Ψ1,020	
		ST	ATIST	TICAL	INFOR	23# A TIT (O NT				
Number of subscrib						MAIL	J.14.				0=
Number of subscrib	ers,	•	•			•	•	•	•		65
Number of instrum				•	•	•	•	•			62
Number of subscrib	pers o	n par	ty li	nes,	•	•	•				62
Number of subscrib		n sing	le lir	nes,							3
Overhead system: -											
Pole line, miles,				•							23
Toron makes as they											

THE NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY OF MASSACHUSETTS.

Location of principal business office: 50 Oliver Street, Boston, Mass.

Date of organization: May 17, 1888. Date of incorporation: May 17, 1888. State in which incorporated: Massachusetts. Date of annual meeting: first Wednesday in April.

Jasper N. Keller,					President.
Francis A. Houston,					General Manager.
Edmund S. Willard,					Treasurer.
Edward A. Wilkie,					Clerk.
William J. Denver,					Assistant General Man-
					ager.
Carl T. Keller, .		•			Assistant General Man-
					ager.
Edmund W. Longley	,				Auditor.

GENERAL OFFICERS AND OFFICIAL TITLES.

DIRECTORS AND RESIDENCES.

Jasper N. Keller,				Surry, N. H.
William J. Denver,				Roxbury, Mass.
Francis A. Houston,				Concord, Mass.
Edmund W. Longley	,			Salem, Mass.

CAPITAL

VIII 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Capital authorized by certificate of association, .			\$25,000 00
Capital authorized by vote of company,			25,000 00
Capital paid in, 250 shares: par value, \$100,		•	25,000 00
Whole number of stockholders,			5
Number of stockholders resident in Massachusetts,			3
Amount of stock held in Massachusetts (shares),			15
Amount of stock held by parent telephone company	y (shar	es),	230

DEBTS.

Bonds or notes issued, viz.: -

DATE.	When due.	How secured. Rate of Interest (Per Cent.).							rest	Amount.	
Dec. 31, 1908	Demand, .	Note, .							6	\$398,000 00	
Total amo	unt of bonds an	d notes,									\$398,000 00
Capital paid in	n,										25,000 00
Total liabi	ility for capital a	nd loans,									\$423,000 00

\$83,700 27 \$83,700 27

0	٦			0				V		
Condensed S	STATE	MENT	OF (UPEF	RATING	FO	R THE Items.		t. Totals	
Gross telephone revenue,										-
Executive department exp									\$2,009	92
Real estate revenue,									36,396	04
								_	·	
Total income above e	vnane	OC.							\$34,386	19
Interest charges and taxes	_	,	•	·	•	·	i	•	\$31,000	
Interest on floating deb						,	\$24,041	36		
en.				•			10.141			
Total charges, .				i	<u>.</u>				34,182	62
20001 01101 8027								_		
Surplus for year endi	ng Jui	ne 30,	1911	ι,					\$203	50
	GEN	VERAL	BAI	ANC	е Ѕне	ET.				
Asse	ts.									
Exchange and toll constru	etion								\$33,000	00
Real estate not required for			n.				·		473,197	
rear estate not required r	or ope					·			2.0,10.	
Total plant account,								٠.	\$506,197	90
Current assets: —									,	
Cash on hand, .									538	83
								_		
Total debits, .									\$506,736	73
Total desits,	•	•	•	·	·	·	•	·	0000,100	• •
Liah	ilities									
Capital stock, common,		•							\$25,000	00
Current liabilities: —	•		•	•	•	•	•	•	\$25,000	00
Loans and notes payabl	ام								431,000	00
Accrued liabilities: —	,	•	•	•	•	•	•	•	401,000	
Taxes accrued but not	due.								3,229	00
Tanes accided but not	auc,	•		·		Ţ,	•		0,220	
makal dabibleta									6450.000	00
Total liabilities,	•	•	•	•	•	•	•	•	\$459,229	
Balance, surplus, .	•	•	•	•	•	•	•	•	47,507	10
Total credits, .	•	•	•	٠	•	•	•	•	\$506,736	73
	Prop	FIT Al	ND L	oss .	\mathbf{A} CCOU	NT.				
							Dr.		Cr.	
Balance from previous ye	ar,								\$47,304	23
Real estate revenue,									36,396	04
Expenses,							\$2,009			
Interest on floating debt,				•			24,041			
Taxes,				•			10,141			
Balance, surplus, .	•	•	•	•	•		47,507	73		

PROPERTY	Acco	UNI	s (A	DDITI	ONS A	ND DI	EDUCT	RIONS	DURIN	THE	YEAR).	
Real estate not	requ		dition for o		ion, 1						\$1,366	82
		De	ductio	ns.								
Property sold:												
Real estate,	•	•	•	•	•	•	•	•	•	•	20,294	41
Net deduc	tions	to p	lant	accou	nts fo	r the	year,		•		\$21,661	23
Note. — Th	is is r	ot a	n op	eratin	g com	pany.						

NORTHFIELD FARMS TELEPHONE COMPANY.

Location of principal business office: Northfield Farms, Mass. Date when company began to give service: 1902.

Service is given by this	compa	any ov	ver its	own	lines	in the	e town	of Nor	thfield.	
		GE	NERAL	OFF	CER.					
Osgood L. Leach,	•	•	•	•		•	Owne	r and M	lanager.	
			CAP	ITAL.						
Capital paid in, .	•	•		•	•	•		•	\$500	00
Number of stockholders Number of stockholders	resid	ent in	Mass	sachus	etts,					$\frac{2}{2}$
	E.	ARNIN	GS Al	ND EX	PENS	ES.				
Gross earnings, Expenses,								· 	\$340 195	
Net earnings, .								•	\$144	
	G:	ENERA	L BA	LANC	з Sне	ET.				
As	sets.									
Property accounts, .		•	•	•	•	•	•	•	\$500	00
Lie	abiliti	es.								-
Capital stock,	•	•	•	٠	•	•	•	•	\$500	00
	S	TATIST	CICAL	Info	RMATI	on.				
Number of subscribers,										30
Number of instruments,			4.							31
Number of pay stations										1
Number of subscribers of Overhead system: —	n par	ty lin	es,	•	٠	•	•	٠		30
Pole line, miles, .										9
Iron wire, miles, .	٠		•	•	•	٠	•	•		9
Note. — "Private lin	e owr	ed by	0. L	. Lead	eh and	Mrs	s. C. H	. Greer	"	

¹ Credit item.

NORTH ORANGE TELEPHONE COMPANY.

Location of principal business office: North Orange, Mass.

Date of organization: April 29, 1902.

Date when company began to give service: about June 1, 1902.

Service is given by this company over its own lines in the town of Orange, Mass.

GENERAL OFFICER.

H. W. Gilmore, General Manager.

EARNINGS AND EXPENSES.

Gross earnings,									\$59	15
Expenses,	•	•	•	٠	•	•	•	•	26	53
Net earnings,									\$32	62
Surplus balance from	last year,	•	•	•		•			99	59
Surplus June 30,	1911,	•							\$132	21

STATISTICAL INFORMATION

	S	TATIST	CICAL	INFO	RMATI	on.		
Number of subscribers	, .							48
Number of instrument	s, .							48
Number of operators,								1
Number of subscribers	on par	ty lin	es,					48
Overhead system: —								
Pole line, miles, .								10
Iron wire, miles, .								10

NOTE. — "This company was organized for the convenience of the farmers here. They own the lines, but all instruments are hired from the New England Telephone and Telegraph Company. There are five separate lines connected at North Orange post office by a switchboard also connected with the New England Telephone and Telegraph Company at Athol.

"Each line has its own president and treasurer, but the general management of the instruments and expenses are left to the manager. The repairs of the lines are done by the farmers themselves. The income derived for the company is from the New England Telephone and Telegraph Company who allow 5 cents each on all messages which pass over the different lines. This is divided with each separate line in proportion to the number of subscribers."

OAKHAM AND COLDBROOK SPRINGS TELEPHONE COMPANY.

Location of principal business office: Oakham, Mass.

Date of organization: June 1, 1893.

Date when company began to give service: July 16, 1903.

Service is given by this company over its own lines in the towns of Barre and Oakham.

GENERAL OFFICERS.

Frank S. Conant,				President and General
				Manager.
Hanna D. Danlan				m .

iarry B. Parker, Treasurer.

CA		

Capital paid in,									\$2,041 1	18
Number of stockho	lders,									2
Number of stockhol	lders r	resider	nt in I	Massa	chuse	tts,				2
Amount of notes ou	itstan	ding,							\$400 0	00
		Ea	RNING	SANI	o Exp	ENSE	s.			
Gross earnings: -			1111110	11111		11101				
Exchange service									\$944 5	i.e.
Toll service,		•	•	•	•	•	•			
		•	•	•	•	•	•		310 3	
Miscellaneous ear	rnings	,	•	•		•	•		53 8	50
								-		-
Total gross ear	nings,	, .							\$1,308 6	8
Expenses, .									992 7	' 5
Net earnings,									\$315 9	13
<u> </u>		•	•	•	•	•	•		31 1	
Interest payments,	•	•	•	•	•	•	•		91 1	.0
								-		_
Net profit,									\$284 7	8
Surplus balance fro	m last	year,							175 7	1
										_
									\$460 4	19
Miscellaneous charg	res to	surnli	19						60 5	
172100cmanicous onar	SCS CO	Surpre	4 .5,	•	•	•	•		00 0	_
Surplus June 3	0 101	1							\$399 9	06
Surpius June 5	0, 191	1,	•	•	•	•	•		হুত্তত স	,0
		GE	NEBAI	BAT.	ANCE	SHEE	ידי			
			.,		11101	~1111				
	Ass	ets.								
Property accounts,									\$2,910 4	f0
Notes and accounts	recei	vable,							59 1	16
Supplies on hand,									20 0	00
Cash on hand,									6 6	31
Other assets, .									45 0	00
		•		•	•				20 0	
Total debits,								_		
Total debits,	•							-	\$2.041.1	7
		•							\$3,041 1	7
		•	-						\$3,041 1	7
	Lia	bilities	3.						\$3,041 1	17
Capital stock, .	Liai	· bilities ·	· 3.						\$3,041 1 \$2,041 1	
-	Liai	· bilities ·	· -							18
Notes payable,	Liai	· bilities ·	· -					: :	\$2,041 1 400 0	18
Notes payable, Accounts payable,	Liad	bilities	· -						\$2,041 1 400 0 188 0	18 00 03
Notes payable, Accounts payable, Other liabilities,	Liad	bilities	· -						\$2,041 1 400 0 188 0 12 0	18 00 03
Notes payable, Accounts payable,	Liai	bilities	· -						\$2,041 1 400 0 188 0	18 00 03
Notes payable, Accounts payable, Other liabilities, Balance, surplus,		bilities							\$2,041 1 400 0 188 0 12 0 399 9	18 00 03 00 06
Notes payable, Accounts payable, Other liabilities,		bilities							\$2,041 1 400 0 188 0 12 0	18 00 03 00 06
Notes payable, Accounts payable, Other liabilities, Balance, surplus,		bilities							\$2,041 1 400 0 188 0 12 0 399 9	18 00 03 00 06
Notes payable, Accounts payable, Other liabilities, Balance, surplus,									\$2,041 1 400 0 188 0 12 0 399 9	18 00 03 00 06
Notes payable, Accounts payable, Other liabilities, Balance, surplus, Total credits,				CAL I	· · · · · · ·				\$2,041 1 400 0 188 0 12 0 399 9 \$3,041 1	18 00 03 00 06 -
Notes payable, Accounts payable, Other liabilities, Balance, surplus, Total credits, Number of subscrib	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · ·			\$2,041 1 400 0 188 0 12 0 399 9 \$3,041 1	18 00 03 00 06 -
Notes payable, Accounts payable, Other liabilities, Balance, surplus, Total credits, Number of subscrib, Number of instrum	ents,			CAL I		·			\$2,041 1 400 0 188 0 12 0 399 9 \$3,041 1	18 00 03 00 06 - 17
Notes payable, Accounts payable, Other liabilities, Balance, surplus, Total credits, Number of subscrit Number of instrum Number of operator	ents,	STA	· · · · · · · · · · · · · · · · · · ·			·			\$2,041 1 400 0 188 0 12 0 399 9 \$3,041 1	18 00 03 00 06 - 17
Notes payable, Accounts payable, Other liabilities, Balance, surplus, Total credits, Number of subscrib, Number of instrum	ents,	STA	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·			\$2,041 1 400 0 188 0 12 0 399 9 \$3,041 1	18 00 03 00 06 - 17

No. 54.]		API	PEN	DIX	A.				213
Number of subscribers or	part	y line	es,						61
Number of subscribers or									3
Overhead system: —	Ü								
Pole line, miles, .									26.5
Iron wire, miles, .									77
Copper wire, miles,	•		•			•			2
	7	D 18.40	TD 4	RTRI	DOI	,			
Location of principal bus									
Date when company bega Service is given by this							ha tar	vena o	f Freeing and
Montague.	conce	rn ov	ver it	s own	line	s in t	ne to	vns o	i Erving and
montague.		~		_					
		GEN	ERAL	OFFI	CER.				
E. M. Partridge,									Owner.
	EA	RNIN	GS Al	D Ex	PENS	ES.			
Gross earnings: —									
Exchange service,	•	•	•	•	•	•	•		\$951 63
Toll service, .	•	•	•	•	•	•	•	•	3 95
Miscellaneous earnings	,	•	•	•	•	•	•	•	285 50
Total gross earnings,									\$1,241 08
Expenses,					•				1,164 97
zaponeos,	·	•	·	•	·	•	•	·_	
Net earnings, .									\$76 11
	GE	NERA	ь Ва	LANCE	SHE	EET.			
Ass	ets.								
Property accounts, .									\$1,195 48
Notes and accounts recei	vable,								176 34
Supplies on hand, .									35 00
Cash on hand, .									23 55
Total debits, .	•	•	•	•	•	•		•	\$1,430 37
	bilitie	8.							01 105 60
Capital stock, Balance, surplus, .	•	•	•	•	•		•	•	\$1,195 68 234 69
Darance, surprus, .	•	•	•	•	•	•	•	· <u> </u>	204 09
Total credits, .									\$1,430 37
	Sm	ATIST	TCAT.	Infor	3.6 A TOT	ON			
Number of subscribers.	~ 1		20112	1111 011	.,,,,,	0111			69
Number of instruments,	•	•	:	•	•	•	•	•	73
Number of pay stations,									3
Number of subscribers of		y line							66
Number of subscribers of									3
Overhead system: —									
Pole line, miles, .		•							34
Iron wire, miles, .	•	•		•	•	•			16
Copper wire, miles,	•	•		•	•				1

01 122 10

RICHMOND TELEPHONE COMPANY.

Location of principal business office: Richmond, Mass.

Date of organization: Aug. 25, 1903.

Date of incorporation: 1903.

Gross earnings: -

State in which incorporated: Massachusetts. Date of annual meeting: first Friday after July 1. Date when company began to give service: 1903.

Service is given by this company over its own lines in the town of Richmond, Mass.

GENERAL OFFICERS AND OFFICIAL TITLES.

Sidney M. Loveland, .			President and General
			Manager.
Charles H. Nichols, .			Vice-President.
Jesse H. Fairfield, Jr.,			Clerk and Treasurer.

DIRECTORS AND RESIDENCES.

Sidney M. Loveland,				Richmond, Mass.
Charles H. Nichols,				Richmond, Mass.
William H. Sherrill,				Richmond, Mass.
Amos G. Kiltz, .				Richmond, Mass.
James H. Barnes,				Richmond, Mass.

CAPITAL.

Capital palu III,	•	•	•	•	•	•	•	•	•	\$1,010 00
Number of stockho	olders									22
Number of stockho	olders	reside	nt in	Mass	achus	etts,				19
Amount of stock h	eld in	Massa	chus	setts (share	s),				19
Amount of notes of	utstar	nding,								\$700 00

EARNINGS AND EXPENSES.

Exchange service	,			•	•	•		\$1,100	19
Toll service,								590	87
Miscellaneous ear	rnings	,	•			•		1	00
Total gross ear	nings,							\$1,725	06
Expenses, .								1,512	64
Net earnings,								\$212	42
Interest payments,								43	75

Net profit,						\$168 67
Surplus balance from last year, .	•	•	•	٠	•	1,693 33
						\$1,862 00
Miscellaneous charges to surplus,						463 45

scellaneous charges to surplu	s,	٠			 463 45
Surplus June 30, 1911,					\$1,398 55

GENERAL BALANCE SHEET.

		G	ENER	AL DA	LANCE	SHE	ET.				
	Ass	sets.									
Property accounts,										\$3,531	37
Notes and accounts	recei	vabl	e, .							496	50
Cash on hand,										41	50
Trade 1 de la									_	@4.000	27
Total debits,	•	•	•	•	•	•	•	•	•	\$4,069	31
	T de	77 *4	•								
Capital stock,	Lia		es.							@1 G10	00
Notes payable,	•	•	•	•	•	•	•	•	•	\$1,610 700	
Accounts payable,		•	•	•	•	•	•	•	•	360	
Balance, surplus,	•	·	•	•	•	•	•	•	•	1,398	
Dalance, surprus,	•	•	•	•	•	•	•	•	-		
Total credits,			•							\$4,069	37
		S	TATIST	CICAL	INFOR	MATI	ON.				
Number of subscrib	ers,										73
Number of instrum	ents,										86
Number of operator											2
Number of pay stat	tions,										2
Number of pay stat Number of subscrib Number of subscrib	ers or	n pai	rty lin	es,							69
Number of subscrib	ers or	n sin	gle lin	es,	•						4
Overhead system: -											
Pole line, miles,		•	•	•	•		•	•			7.5
Iron wire, miles,	•	•	•	•	•	•	•	•			47
	D 0 11					~~					
	ROV	V LE	Y TE	LEP	HONE	CO	MPA	NY.			
Location of princips	al bus	ines	s office	e: Roy	wley, N	Iass.					
Date when company	y beg	an to	give	servi	ce: Dec	e. 15,	1898.				
Service is given by	this	com	pany o	over i	ts own	line	s in tl	he tow	ns of	Ipswich a	nd
Rowley.											
			GEN	ERAL	Offic	ERS.					
Almon E. Carp	enter	and	Alber	t EC T	Railey					Owners.	
minon 12. Carp	circer	and	211001	t 12. 1	baney,	•	•	•	•	Owners.	
				CAR	ITAL.						
Cauthal mat 1 to				OAF	IIAL.					01 545	07
Capital paid in, Amount of notes ou		din a	•	•	•	•	•	•	•	\$1,545 1,600	
Amount of notes ou	itstan	umg	, .	•	•	•	•	•	•	1,000	00
		10			ND EX						
Gross earnings: —		£	ARNIN	GS AI	ND EX	PENS.	es.				
Exchange service										\$605	50
Toll service,	,	•	•	•	•	•	•	•	•	159	
Miscellaneous ear	· nings		•				•				75
		,						·	`		
Total gross ear	nings	, .								\$770	43
Expenses, .										444	69
Not coming										6207	74
Net earnings,		•	•	•	•	•	•			\$325 82	
Interest payments,	•	٠	•			•	•			82	

		GE	NERAL	BAL	ANCE	Shee'	т.				
	Ass	ets.									
Property accounts,										\$2,358	93
Notes and accounts										623	73
Supplies on hand,										400	00
Cash on hand,										288	64
											_
Total debits,										\$3,671	30
	Liab	bilities									
Capital stock, .										\$1,545	67
Notes payable,										1,600	
Balance, surplus,										525	63
Total credits,	•		•							\$3,671	30
		STA	TISTIC	CAL IN	FORM	IATION	٧.				
Number of subscrib	ers.										47
Number of instrume											47
Number of operator	'S,										1
Number of pay stat											4
Number of subscribe											44
Number of subscribe											3
Overhead system: -	-										
Pole line, miles,											10
Iron wire, miles,											27
						-					
STATE LINE	CO-	OPER	RATIV	E T	ELEI	PHON	E C	OMP	ANY I	NO. 7.	
Location of principa	l hue	iness c	office.	Wost	Stock	chrida	ω Ma				
Date of organization				11 650	Dioci	roriug	,0, 1,14	100.			
Date when company				ervice	Jan.	1, 19	02.				
Service is given by t								vn of V	Vest St	ockbrid	lge.
and in the State											.6.,
	-										
	Com	ral C) DELCT	DC 13	. O-	TELOI +	Tree	TTO			
	GENE	KAL C	FFICE	RS AN	D OF	FICIAL	L IIT.	LES.		.,	
John Howes,	•	•	•	•	•	•	•			esident.	
John P. Smith,		•	•	•	•	•	•	•		easurer.	

Charles H. Baldwin,	•	•	•	•	•	•	•	•	Secretary.
			CAP	ITAL.	•				
Capital paid in, .									\$525 00
Number of stockholders,									15

		10	ARNIN	IGS AL	ND 122	APENS	Eo.		
Gross earnin	gs,								\$88 17
Expenses,									84 40

Surplus June 30, 1911, . \$3 77

87 64

		Gı	ENER!	L BA	LANC	e She	ET.		
	Ass	sets.							
Property accounts,									. \$525 00
Cash on hand,									3 7
T-4-1 J-1:4-									e-00 7
Total debits,	•	•	•	•	•	•	•		. \$528 7
	Lia	bilitie	es.						
Capital stock, .									. \$525 00
Balance, surplus,									. 3 7
Total credits,									. \$528 7
2000202000,	•		•	•	•	•	•	•	. 0020 .
		Sī	TATIST	ICAL	Info	RMATI	ON.		
Number of subscrib	ers								. 1
Number of instrum			•	:		•			. 1
Number of operator				•				•	
Number of pay stat	tions	•		•	•	•	•	•	
Number of subscrib	ora or	• n nor:	tralin	•	•	•	•	•	1
Overhead system: -		ı par	ty IIII	cs,	•	•	•	•	
Pole line, miles,									
Iron wire, miles,		:					•		
from wife, mines,	•	•	•	•	•	•	•	•	. 10
Location of princips Date when compan	al bus	iness an to	office	servic	t Sto	ckbrid	lge, M	lass.	
Service is given by bridge.	this	comp	any o	over 1	ts ow	n line	s in 1	he to	wn of West Stock
			~						
			GE	VERAL	OFF	ICER.			
W. H. Losty,		•	•	•	•	•	•	•	. Owner.
				CAP	ITAL.				
Capital paid in,									. \$1,410 00
Cupital pala in,	•	•	•	•	·	•	•	•	. 61,410 00
		-							
~ ·		E	ARNIN	GS AN	D E	KPENS:	ES.		
Gross earnings: —									
Exchange service		•	•	•	•	•	•	•	. \$60 0
Toll service,	•	•	•	•	•	•	•		. 17 70
Miscellaneous ear	nings	,	•	•	•	•	•	•	. 207 00
Total gross ear	nings,								. \$284 78
Expenses, .									. 284 78
Surplus balance from	m last	year	., .						. \$87 64

Surplus June 30, 1911,

GENERAL BALANCE SHEET.

	As	sets.									
Property accounts,										\$1,410	00
Cash on hand,	٠	٠	•	•	٠	•	•			87	64
Total debits,										\$1,497	64
	Lic	ıbiliti	es.								
Capital stock, .										\$1,410	00
Balance, surplus,	•	٠	•	٠	٠	٠	•	٠	•	87	64
Total credits,			•							\$1,497	64
		s	TATIST	TICAL	Info	RMATI	on.				
Number of subscrib	ers,										17
Number of instrum	ents,										17
Number of pay star	tions,										2
Number of subscrib Overhead system: -		n pai	rty lin	es,	•	•	٠	•			17
Pole line, miles,											9
Iron wire, miles,											9

Note. — "The so-called State Line Telephone Company is not an incorporated body, but is a name given by the New England Telephone Company in their directory to the exchange at West Stockbridge and State Line owned by W. H. Losty and that he has made this report as near right as possible."

TAGHCONIC TELEPHONE COMPANY.

Location of principal business office: West Stockbridge, Mass.

Date of organization: Dec. 27, 1907.

Date of incorporation: July 1, 1908.

State in which incorporated: Massachusetts.

Date of annual meeting: first Tuesday in December. Date when company began to give service: Jan. 1, 1909.

Service is given by this company over its own lines in the towns of Great Barrington and West Stockbridge, Mass.

GENERAL OFFICERS AND OFFICIAL TITLES.

George H. Cobb,				President.
Thomas L. Curran,				Secretary.
Charles B. Wilson,				Treasurer.

DIRECTORS AND RESIDENCES.

Fabian B. Petit,				West Stockbridge, Mass.
Charles B. Wilson,				West Stockbridge, Mass.
George H. Cobb.				Housatonic, Mass.

				CAP	ITAL.					
Capital paid in,	•			•	•	•				\$1,000 00
Number of stockho	lders									21
Number of stockho	olders	resid	ent in	Mass	sachus	setts,				21
		E	ARNIN	IGS Al	ND EX	(PENS	ES.			
Expenses, .										\$46 25
Net earnings, .										285 75
Net profit, .	•	•	•	•		•				176 25
Dividends, .	•									60 00
Surplus for year,					•	•	•			$164 \ 25$
Surplus balance fro						•				63 07
Miscellaneous char				•						3 25
Surplus June 30, 19	911,	•	•	•	•	•	•		• 1	164 25
		G	ENERA	L BA	LANCE	SHE	ET.			
	As	sets.								
Property accounts,										\$1,000 00
Cash on hand,										164 25
Total debits,										\$1,164 25
	Lic	ibiliti	es.							
Capital stock, .	•	•	•	•	•	•	•	•		\$1,000 00
Balance, surplus,	•	•	•	•	•		•			164 25
Total credits,	•	•	•	•	•	•	•	•	•	\$1,164 25
		G.		CICAL	T					
			PATIST	TICAL	INFOR	RMATIC	ON.			
Number of subscril			•	•	•	•	•			31
Number of instrum		•	•	•	•	•	•	•		31
Number of operato					•	•	•	•		,2
Number of subscrib		n par	ty lin	es,	•	•	•	•		31
Overhead system:										
Pole line, miles,			•	•	•	•	•			18
Iron wire, miles,	•	•	•	•	•		•			24

WEST STOCKBRIDGE MUTUAL TELEPHONE COMPANY.

Location of principal business office: West Stockbridge, Mass.

Date of organization: Feb. 20, 1904. Date of incorporation: March 7, 1904.

State in which incorporated: Massachusetts.

Date of annual meeting: second Monday in May.

Date when company began to give service: May 1, 1904.

Service is given by this company over its own lines in the town of West Stockbridge.

GENERAL OFFICERS AND OFFICIAL TITLES.

Cyrus W. Sprague, President.

William W. Bartlett, Secretary and Treasurer.

DIRECTORS AND RESIDENCES.

Cyrus W. Sprag Vallas R. Trues Charles R. Van Charles H. Fua James S. Moore Capital paid in, Number of stockhol Number of stockhol Amount of stock he	dell, Bush rey, e, ders, ders,	cirk,	tin N				West West West	Stockbi Stockbi Stockbi Stockbi	ridge, ridge, ridge,	Mass. Mass.	12 11
rimount of Stock no.	id iii	III assa	cirusc	000,	•	•	•	•	•	Φ390	00
Gross earnings: —		Елі	RNING	S AND	Exp	ENS	ES.				
Exchange service,		•	•	•	•	•	•	•		\$357	
Expenses, .	•	•	•	•	•	•	•	•	•	256	15
Net earnings,										\$100	95
Dividends, .				•						136	00
Definit for the										005	0.5
Deficit for the Surplus balance from				•	•	•	•		•	\$35 141	
		, J,									
Surplus June 30	0, 191	1,	•	•	•	•	•	•	•	\$106	02
				_							
	Ass		VERAL	BAL	ANCE	SHE	ET.				
Property accounts,		ets.		Bal.	ANCE	SHE	ET.			\$800	00
Notes and accounts	· recei	ets. vable,		Bal.	ANCE	SHE	ET.	:		55	00
Notes and accounts Supplies on hand,	· recei	ets. vable,		BAL	ANCE	SHE	ET.	•		55 15	00 00
Notes and accounts	· recei	ets. vable,		BALZ	·	SHE	ET.			55	00 00 02
Notes and accounts Supplies on hand, Cash on hand, Other assets, .	· recei	ets. vable,		BAL	·	SHE	· · · · · · · · · · · · · · · · · · ·		· · ·	55 15 106 150	00 00 02 00
Notes and accounts Supplies on hand, Cash on hand,	· recei	ets. vable,		BAL2	·	SHE	CET.		:	55 15 106	00 00 02 00
Notes and accounts Supplies on hand, Cash on hand, Other assets, . Total debits,	recei	ets. vable,		BAL2	·	SHE				55 15 106 150 \$1,126	00 00 02 00
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock,	recei	ets vable, .		BAL2	·	SHE	CET.			\$1,126 \$1,000	00 00 02 00 02
Notes and accounts Supplies on hand, Cash on hand, Other assets, . Total debits,	recei	ets vable, .		BAL2	·	SHE				55 15 106 150 \$1,126	00 00 02 00 02
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock,	recei	ets vable, .		BAL2	·	SHE				\$1,126 \$1,000	00 02 00 02 02 02
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Balance, surplus, Total credits,	recei	ets. vable, · · · · · · · · · · · · · · · · · · ·					:			\$1,126 \$1,000 \$1,000 126	00 00 02 00 02 02
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Balance, surplus, Total credits,	recei	ets vable, bilities					:			\$1,126 \$1,000 \$1,000 126	00 00 02 00 02 02 00 02 02 48
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Balance, surplus, Total credits, Number of subscribe Number of instrume	Liad	ets vable, bilities					:			\$1,126 \$1,000 \$1,000 126	00 00 02 00 02 02
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Balance, surplus, Total credits,	recei	ets vable, bilities					:			\$1,126 \$1,000 \$1,000 126	00 00 02 00 02 02 02 02 02 48 51
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Balance, surplus, Total credits, Number of subscribe Number of instrume Number of operator Number of pay stati Number of subscribes	Liad	ets vable, bilities					:			\$1,126 \$1,000 \$1,000 126	00 00 02 00 02 02 02 02 02 48 51 2
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Balance, surplus, Total credits, Number of subscribe Number of instrume Number of operator Number of pay stati Number of subscribe Overhead system:—	Liad	ets vable, bilities					:			\$1,126 \$1,000 \$1,000 126	00 00 02 00 02 02 02 02 48 51 2 1 48
Notes and accounts Supplies on hand, Cash on hand, Other assets, Total debits, Capital stock, Balance, surplus, Total credits, Number of subscribe Number of instrume Number of operator Number of pay stati Number of subscribes	Liab	ets vable, bilities					:			\$1,126 \$1,000 \$1,000 126	00 00 02 00 02 02 02 02 48 51 2 1

\$535 49

Telegraph Companies.

COMMERCIAL CABLE COMPANY.

Location of principal business office: 112 State Street, Boston, Mass.

Date of organization: March 14, 1906. Date of incorporation: March 14, 1906. State in which incorporated: Massachusetts.

Date of annual meeting: February 15.

Date when company began to give service: April 1, 1906.

Service is given by this company over its own lines in Boston and Rockport.

GENERAL OFFICERS AND OFFICIAL TITLES.

Clarence H. Mackay,			President.
George G. Ward,			Vice-President.

DIRECTORS AND RESIDENCES.

Clarence H. Mackay,			Roslyn, Long Island, N.	Y.
George G. Ward, .			New York, N. Y.	
Frederick H Putt			Boston Mass	

CAPITAL.

Capital authorized by charter,				\$10,000 00
Capital authorized by vote of company,				10,000 00
Capital paid in, 100 shares; par value, \$100,	•	•	•	10,000 00
Whole number of stockholders,				4
Number of stockholders resident in Massachusetts,				1
Amount of stock held in Massachusetts (shares).				1

CONDENSED STATEMENT OF OPERATING FOR THE YEAR.

			~		-	U		 			
								Items	١.	Totals	
Revenue from	n opera	tion,								\$38,596	48
General expe	nse,							\$2,566	30		
Operating ex	pense,							28,845	57		
Current repa	ir,							2,039	06		
Rented lines,				• .			٠.	4,800	00		
Total ex	penses,	•	٠	•	•	•	. —	 ·····	_	38,250	93
Net reve	enue fro	m oi	oerat	ion,						\$345	55
Miscellaneou		-									
Bank inter	est,					•				189	94

Surplus for year ending June 30, 1911,

	EAR	NINGS.				
Gross earnings from operation: —			•]	Items.	Totals.
Cable service,						\$38,596 48
Miscellaneous income: —						,
Bank interest,						189 94
Total gross earnings and incom					_	£20 706 A9
Total gloss earnings and incon	16,	•	•	•		\$38,786 42
	Exp	ENSES.				
General expense: —						
Postage, printing and stationery,		•		\$	830 49	
Miscellaneous office expenses,				1,0	065 67	
Travelling,					108 75	
Insurance,				;	377 59	
Taxes,					183 80	
Total general expense, .						\$2,566 30
Operating: —						
Superintendence,				\$4,	800 00	
Wages of operators,				18,	104 05	
Wages of messengers,				1,4	429 25	
Rent, light and heat,				4,	334 17	
Advertising and canvassing, .					75 85	
Incidental,					102 25	
Total operating expense, .						28,845 57
Current repair: —						
Repairs, instruments and batterie	es,			\$1,	840 92	
Incidental,			١.	:	198 14	
Total current repairs, .						2,039 06
Rented lines,						4,800 00
Total of all operating expenses						\$38,250 93
GENERA	L BA	LANCI	з Ѕнв	ET.		
Assets.						
Real estate at Rockport, - office	build	ling a	and			
land,				\$4,	200 75	
Electrical apparatus, equipment, o	ffice f	urnitu	ıre,			
etc.,				6,0	000 00	
Total plant account,						\$10,200 75
Current assets: —						
Cash on hand,				\$3,4	402 61	
Notes and accounts receivable,					396 20	
Supplies on hand,					879 60	
Total current assets,						13,678 41
					_	
Total assets,	•	•	•		•	\$23,879 16
Balance, deficit,	•	•	•	•		9,310 20
m 1 . 1 . 1 . 4						e22 100 26
Total debits,	•	•	•	•	•	\$33,189 36
Liabilities.						
						\$10,000 00
Current liabilities:—	•	•			•	020,000 00
Audited vouchers and accounts,						23,189 36
					_	899 100 80
Total credits,	•	•	•	•		\$33,1 89 36

	Pro	FIT A	ND I	oss 2	Accor	NT.			
							Dr.		Cr.
Balance from previous ye	ear,			•			\$9,845	69	
Operating expenses, .							38,250	93	
Gross earnings from oper	ation,								\$38,596 48
Bank interest, .									189 94
Balance, deficit, .									9,310 20
					_				
						\$	48,096	62	\$48,096 62
GEN	ERAL	Rem	ARKS	AND	Expl	ANAT	cions.		
Note. — "This compa ness only, and does not States, its sole business b States, Canada and Euro	do an eing t	y int	rasta	te no	r inte	rstat	e busir	ess in	the United
THE COMMER					EGR.		COM	[PAN	Y OF
Location of principal bus Date of organization: Au Date of incorporation: A State in which incorporat Date of annual meeting: Date when company beg Service is given by this towns:—	ug. 3, 3 ug. 3, ted: M fourtl	1888. 1888 Iassa h Sat give s	chuse urday servic	tts. in Ju	ıly. g. 3, 1	1888.			ng cities and
Adams,		Las	wrenc				Nor	th Ad	ama
Athol,			nox,	С,				nge,	.ams,
Fitchburg,			omins	tor				sfield,	
Gardner,			well.	,				lburne	
Greenfield,			rrima	C.				liamst	•
Haverhill,			wbury				****	11411150	01111
	CRAL ()FFIC	ERS A	AND ()ffici	AL]	CITLES.		
C. A. Richardson,	•	•	•	•	•	•	Presid		
Charles P. Bruch,	÷ .	•	•	•	•		Vice-I		ent.
Theodore L. Cuyler,		•	•	•	•		Treas		
F. G. McGinnis,	•		•	•	•	•	Clerk.		
	DIR	ECTO	RS AN	D RE	SIDEN	ices.			
Edward J. Nally,							New	York.	N. Y.
Charles P. Bruch,							New		
C. A. Richardson,							Bosto		
								_,	
			CAP	ITAL.					
Capital authorized by ch									\$10,000 00
Capital authorized by vo									10,000 00
Capital paid in, 100 shar	es; pa	r val	ue, \$1	.00,	•		•		10,000 00
Whole number of stockh	oldora								
Number of stockholders			Mos-	o ob ···	· ·	•	•	•	
LIGHT OF STOCKHOLDERS	eside.		etta (•	•	•	

Amount of stock held in Massachusetts (shares),

CONDENSED STAT	EMENT OF (Operating i	FOR THE	YEAR	(Whole	System).
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						Item	s.	Totals	
Gross earnings from opera	tion, 1							\$41,373	52
General expense, .						\$4,791	60		
Operating expense, .						25,315	08		
Current repair, .						7,757			
Total expenses, .				Ť	· ·			37,863	0.1
zotaz enponses, .	•	•	•	•	•			01,000	31
Surplus for year endi	ng Ju	ne 30,	1911	,				\$3,509	61
	EAR	NINGS	(WH	OLE	Syste	eм).			
Gross earnings from opera	ation,							\$41,373	52
	Exp	ENSES	(WH	OLE	Syste	EM).			
General expense: —									
Salaries of officers,						\$2,114	15		
Postage, printing and s	tation	ery,				698	14		
Miscellaneous office exp	oenses	,				841	27		
Damages,						25	68		
Rent of right of way,						942			
Taxes,			·	Ť		170			
Total general expens	• e	•	•	•		1.0		\$4,791	60
Operating: —	~,	•	•	•	•			φ±, εσι	00
Wages of operators and	lotho	 .				@17 O/E	10		
			•	•	•	\$17,845			
Wages of messengers,		•	•	•	•	3,751			
Rent, light and heat,		•	•	•	•	3,314			
Advertising and canvas		•	•	•	•		50		
Incidental,		•	•	•	•	363	14		
Total operating expe	nse,	•	•	•	. —			25,315	08
Current repair: —									
Repairs, overhead lines	,					\$7,702	40		
Repairs, underground l	ines,					9	55		
Repairs, instruments an	nd bat	teries	,			45	28		
Total current repairs					. —			7,757	23
	•							.,	
Total of all operating	g expe	nses,	•					\$37,863	91
	GEN	ERAL	Bala	NCE	SHEE	т.			
Ass	ets.								
Plant required for operati	ion .							\$10,000	00
Current assets:—	,	•	•	•	•	•	•	\$10,000	00
Notes and accounts rec	oirro bi	ام				\$14,039	05		
	ervan	ie,	•	•	•	221			
Supplies on hand,	•	•	•	•	•	221	54	14.000	
Total current assets,	•	•	•	•	. –			14,260	
Balance, deficit, .	•	•	•	•	•		•	1,797	33
Total debits, .								\$26,057	90

¹ Gross earnings in Massachusetts, \$4,121.53.

	Liabi	lities								Totals.	
Capital stock, comm Current liabilities: -				٠						\$10,000	00
Accounts payable,		•								16,057	90
Total credits,										\$26,057	90
		Pro	FIT	AND	Loss	Acco	UNT.	Dr.		Cr.	
Balance from previo	us vea	r.						\$5,306		• • • • • • • • • • • • • • • • • • • •	
Operating expenses,								37,863	91		
Gross earnings from	opera	tion,								\$41,373	52
Balance, deficit,	•	•	•	•	•	•				1,797	33
								\$43,170	85	\$43,170	85
			_								

MARTHAS VINEYARD TELEGRAPH COMPANY.

Location of principal business office: Woods Hole, Mass.

Date of organization: July 16, 1900.

Date of incorporation: July 20, 1900.

State in which incorporated: Massachusetts.

Date of annual meeting: January 16.

Date when company began to give service: Oct. 1, 1900.

Service is given by this company over its own lines in the following towns: -

Edgartown, Gosnold, Oak Bluffs, Falmouth, Nantucket, Tisbury.

GENERAL OFFICERS AND OFFICIAL TITLES.

DIRECTORS AND RESIDENCES.

CAPITAL.

Capital authorized by charter,			\$10,000 00
Capital authorized by vote of company, .			10,000 00
Capital paid in, 100 shares; par value, \$100,			10,000 00

CONDENSED STATEMENT OF OPERATING FOR THE YE	HE YEAR	THE Y	FOR THE	FOR	OPERATING	OF	STATEMENT	CONDENSED
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CONDENSED STATES	MENT OF	OPE	RATINO	FOR THE	I EA	R.	
				Items	i.,	Totals	
Gross earnings from operation, .						\$12,270	56
Less rebates and discounts, .						30	04
					_		
Revenue from operation, .						\$12,240	50
General expense,	•	•	•	\$2,677	12	@12,2 1 0	02
Operating expense,	•	•	•	3,336			
Current repair,	•	•	•	1,603			
	•	•	•	1,005	11	7,617	24
Total expenses,	•	•	• —			7,017	94
							_
Net revenue from operation,	•	•	•		•	\$4,623	
Miscellaneous income,	•	•	•		•	97	11
					_		_
Total income above expenses	i, .					\$4,720	29
Dividends declared on stock, 5%,						500	
					_		
Complete for more anding Tune	20 101	1				64.000	20
Surplus for year ending June	30, 191.	Ι,	•		•	\$4,220	29
	EARN	INGS					
Gross earnings from operation: —	•						
Telegraph service,	•	•		\$12,027			
Money transfers,				67			
Messenger service,	•			70			
Leased wires,	•			104	49		
			_		_	\$12,270	
Less rebates and discounts,	•	•			•	30	04
Total gross earnings from op-	eration,				•	\$12,240	52
Miscellaneous income: —							
Interest on deposits,				\$52			
Subrents,				45	00		
Total miscellaneous income,			. —			97	11
					_		
Total gross earnings and inco	me,					\$12,337	63
	Expe	INSES	š.				
General expense: —	~		•				
Salaries of officers,				\$1,500	00		
Postage, printing and stationer	v	· ·		293			
Miscellaneous office expenses,				30			
Travelling,	•	Ċ	Ċ	190			
Legal,				25			
Rent of right of way,				415			
Insurance,				21			
Taxes,				200			
Total general expense,						\$2,677	12
Operating: —							
Wages of operators,				\$3,527	27		
Wages of messengers,				300			
· · · · · · · · · · · · · · · · · · ·							_
Amounts carried forward, .				\$3,827	97	\$2,677	12

								Item	s.	Totals.
Amounts broug	ht for	ward,						\$3,827	97	\$2,677 12
· ·										
Operating - Conclu	uded.									
Telephone charge								154	53	
Rent, light and l		•	•	•	•	•		484		
Incidental, .	icat,	•	•	•	•	•				
incidentai, .	•	•	•	••	•	•		288	80	
								\$4,755	96	
Less proportion of										
Union and Postal	Teleg:	raph (Comp	any's	s busin	ess,		1,419	45	
Total operatin	g expe	nse,								3,336 51
Current repair: -										
Repairs, overhea	d lines	š						\$1,192	71	
Repairs, submari					•			177		
Repairs, instrum					•	•		222		
Repairs, instrum	ents a	na ba			•	•				
Incidental, .			•	•	•	•		11	06	
Total current	repairs	5,	•	•	•					1,603 71
Tradal of all an	4:									07 C17 94
Total of all op	eratin	g expe	enses,	•	•	•	•	•	•	\$7,617 34
		α-		- D.		~ ~				
		GE	NERA	L BA	LANCE	E SH	EET.			
	Ass	ets.								
Owenhand lines								@4 000	00	
Overhead lines,	•	•	•	•	•	•		\$4,000		
	•	•	•	•	•	•		5,000		
Equipment, .				•	•			668	50	
Office furniture and	l fixtu	res,						331	50	
Total plant acc	count,					٠				\$10,000 00
~										·
Cash on hand,		. *						\$4,234	09	
Notes and accoun	ote roo	eizza h	ما			•		2,283		
					•	•		2,200	01	6 5 1 7 00
Total current a	issets,	•	•	•	•					6,517 90
Total debits,										\$16,517 90
									Ť	V-11,111
	Lia	bilities								
C										010000
Capital stock, com		•	•	•	•	•	•	•	•	\$10,000 00
Balance, surplus,	•	•	•	•	•	•	•	•	•	6,517 90
									_	
Total credits,										\$16,517 90
10th of ourth,	•	•	•	•	•	•	1	•	•	φ10,011 00
		PRO	FIT A	ND I	Loss A	A cco	חאיד.			
						_000		Dr.		Cr.
Balance from previ	0118 7/2	ar								\$2,297 61
			•		•	•	•	•	•	
Gross earnings from		auon,	•	•	•	•			•	12,270 56
Miscellaneous incor		•	•	•	•	•				97 11
Operating expenses		•		•				\$7,617		
Rebates and discou	nts,							30	04	
Dividends declared	on sto	ock,						500	00	
Balance, surplus,								6,517		
•										
							\$	14,665	28	\$14,665 28

\$30,000 00

NEW ENGLAND TELEGRAPH COMPANY OF MASSACHUSETTS.

Location of principal business office: 84 State Street, Boston, Mass.

Date of organization: April 7, 1884. Date of incorporation: April 7, 1884.

Capital authorized by charter.

State in which incorporated: Massachusetts.

Date of annual meeting: second Tuesday in August.

Service is given by this company over its own lines in Attleborough, Brockton,

Gloucester, Rockport and Salem.

GENERAL OFFICERS AND OFFICIAL TITLES.

Charles C. Adams, .			President.
Charles P. Bruch, .			Vice-President.
Theodore L. Cuyler, Jr.,			Treasurer.
J. H. Wentworth, .			Clerk and Transfer Agent.

DIRECTORS AND RESIDENCES.

Charles C. Adams,				New York, N. Y.
Charles P. Bruch,				New York, N. Y.
C. A. Richardson,				Boston, Mass.

CAPITAL.

Capital authorized by vote of company, Capital paid in, 300 shares; par value, \$100,	:	:	:	30,000 00 30,000 00
Whole number of stockholders,	•			4 None.

CONDENSED STATEMENT OF OPERATING FOR THE YEAR (WHOLE SYSTEM).

							Items		Totals	١.
Revenue from opera	tion,								\$18,742	60
General expense,							\$2,247	66		
Operating expense,							8,084	38		
Current repair,							2,298	92		
Total expenses,		•	•	•		 		_	12,630	96
Surplus for year	end:	ing J	une 3	0, 191	1,	•			\$6,111	64

EARNINGS (WHOLE SYSTEM).

Gross earnings from operation	, 1							\$18,742 60
-------------------------------	-----	--	--	--	--	--	--	-------------

EXPENSES (WHOLE SYSTEM).

Amount								Ø1 000	20
Damages,	٠	•	•	•	٠	•	•	26	72
Miscellane	ous o	ffice e	xpens	es,				299	39
Postage, pr	intin	g and	stati	onery,				237	71
Salaries of	office	rs,						\$1,238	54
General expe	nse:-	_							

¹ Gross earnings in Massachusetts, \$931.44.

							Items		Totals.	
Amount brought forwar	rd.						\$1,802	36		
22	,,	Ť					,			
General expense — Conclu	ded.									
Rent of right of way,							104	81		
Taxes	•	•	•	•	•		340			
Total general expense	•	•	•	•	•		940		\$2,247	66
	,	•	•	•	•				\$2,2±1	00
Operating: —	. 3						07 107	-0		
Wages of operators and		rs,	٠	•	•		\$7,197			
,	•	•	•	•	•		352			
Rent, light and heat,			٠	•			500			
							34	69		
Total operating exper	ase,								8,084	38
Current repair: -										
Repairs overhead lines,									2,298	92
,								_		
Total of all operating	erne	enses							\$12,630	96
Total of all operating	CAP	, in the second	•	•	•	•	•	•	\$12,000	•
	_				~					
	GE:	NERAL	В.	ALANCE	SH	EET.				
Asse	ts.									
									620 000	00
Plant required for operation	on,	•	•	•	•	•	•	•	\$30,000	00
Current assets: —										
Notes and accounts rece		le,	٠	•	٠		\$5,936			
Supplies on hand,							2	59	•	
Total current assets,									5,939	49
								_		
Total debits, .									\$35,939	49
Liab	27:42.0									
	unne	S.								
	•							•	\$30,000	00
Current liabilities: —										
Accounts payable,									1,105	87
Balance, surplus, .									4,833	62
								_		
Total credits, .									\$35,939	49
20020100,	•	•		•			·	·	***************************************	
	n .			T		•				
	PRO	FIT A	ND	Loss A	CCC	DUNT.	Dr.		Cr.	
									Cr.	
Balance from previous year		•	•	•	•		\$1,278			
Operating expenses, .					•		12,630	96	0.00	
Gross earnings from opera	tion,								\$18,742	60
Balance, surplus, .							4,833	62		
							\$18,742	60	\$18,742	60

POSTAL TELEGRAPH-CABLE COMPANY OF MASSACHUSETTS.

Location of principal business office: 100 State Street, Boston, Mass.

Date of organization: April 3, 1896. Date of incorporation: April 3, 1896.

State in which incorporated: Massachusetts. Date of annual meeting: fourth Saturday in July.

Date when company began to give service: April 3, 1896.

Service is given by this company over its own lines in the following cities and towns:—

	Amherst,		Fall	Rive	er.			Ner	v Bed	lford,	
	Attleborough,			mout						pton,	
	Boston,				ugh,				ngfie	_	
	Brookline,				ham,						
				_					rbridg		
	Cambridge,			yoke	•				nton		
	Charlton,		Lyn						stfield		
	Chelsea,			lden,					burn,		
	Chicopee,		Mai	nches	ter,			Wo	ceste	r.	
	Danvers,		Nat	ick,							
	Gene	RAL (Office	ERS A	ND O	FFICL	AL T	ITLES.			
	C. A. Richardson,							Presid	lent.		
								Vice-I		lent.	
	Edward B. Pillsbury, Theodore L. Cuyler,	Jr	•		•			Treas		,0,000	
			•	•	•	•				$ransfer\ A_{i}$	aent
	r. G. McGinnis,	•	•	•	•	•	•	Cierk	ina 1	Tunsjet A	yen.
		DIR	ECTOR	S AN	D RES	IDEN	CES.				
	Edward J. Nally,							New ?	York,	N. Y.	
	Charles P. Bruch,							New ?	York,	N. Y.	
	C. A. Richardson,							Bosto	n, Ma	ass.	
	•										
				CAPI	TAL.						
C	oital authorized by abo	n+0n								\$5,000	00.00
Oa,	pital authorized by chapital authorized by vot	arter,			•		•	•	•		
Ca _]	pital authorized by vot	te or o	compa	ny,		•	•	•	•	5,000	
Ca	pital paid in, 50 shares	; par	value	, \$10	0,	•	•	•	•	5,000	0 00
	ole number of stockho						•	•	•		1
Nu	mber of stockholders r	eside	nt in I	Mass	achuse	tts,	•	•	•	N	one.
	CONDENSED STATEMEN	NT OF	OPE	RATIN	NG FOI	R THE	YE	AR (W	HOLE	SYSTEM)	
								Items.		Totals	١.
P.o.	venue from operation, 1									\$334,518	
Car	ende from operation,	•	•	•	•	•		26,398		\$00±,010	3 10
O	neral expense, .	٠	•	•	•	•	φ.	20,090	17		
	erating expense, .	•	•	•	•	•	2	94,535	17		
Cu	rrent repair, .	•	•	•	= '	•	•	38,297	62	0.00	
	Total expenses, .	•	•	•	•					359,233	1 28
	Deficit for year endir	ng Ju	ne 30.	1911						\$24,715	2 50
	• • • • • • • • • • • • • • • • • • • •		,								
		T		(TT:-		·	>				
		LAR	NINGS	(111	HOLE S	DISTE	Δ1).				
Gro	oss earnings from opera	ation,		•			•	•		\$334,518	3 78
		Exp	ENSES	(WI	HOLE S	SYSTE	м).				
Ge:	neral expense: —										
	11						3	\$3,827	69		
	Postage, printing and s		16757					6,329			
					•	•					
1	Ticaallanaous office over	nanca						1 1 1 1 1 1 1 1 1	34		
	Miscellaneous office exp	pense	s,	•	•	٠		11,100	3,		
	Miscellaneous office exp Amount carried forwa		s,			· –		11,100 21,257	_		

¹ Gross earnings in Massachusetts, \$26,039.24.

					Items	z.	Totals.
Amount brought forward,					* \$21,257		200005
11vaiit orougitt joraara,	•	·	•	•	Q=1,=0		
General expense — Concluded,							
Damages,					1,141	79	
Legal,					1,383	93	
Rent of right of way, .					1,007	30	
Taxes,					1,607	87	
Total general expense,							\$26,398 49
Operating: —							
Wages of operators and other	ers,				\$186,811	08	
Wages of messengers, .					61,599	03	
Rent, light and heat, .	•				43,654	85	
Advertising and canvassing,					135	57	
Incidental,					2,334	64	
Total operating expenses,							294,535 17
Current repair: —							
Repairs overhead lines, .					\$35,436	13	
Repairs underground lines,					580	01	
Repairs call circuits, .					1,338		
Repairs instruments and ba	tteries	S			942		
Total current repairs.							38,297 62
,						_	
Total of all operating expe	200						\$359,231 28
Total of all operating exp	enses,	•	•	•		•	φυυσ,2υ1 2C
Ge	NERA	L B.	ALANCI	е Ѕн	EET.		
Assets.							
							# 000 00
Plant required for operation,	•	•	•	•	• •	•	\$5,000 00
Current assets:—							
Cash on hand,	•	•	•	•	\$1,277		
Notes and accounts receivab	le,	•	•	•	38,215		
Supplies on hand, .	•	•	•	•	541	75	
Total current assets, .	•	•	•				40,034 33
Balance, deficit,	•	•	•	•		•	35,020 96
						-	
Total debits,							
	Ť						\$80.055 29
				•	• •	٠	\$80,055 29
				•		٠	\$80,055 29
Liabilitie	s.			٠		٠	
Capital stock, common, .	s. •		•	•			\$80,055 29 \$5,000 00
	s. •		•				
Capital stock, common, .	s.						
Capital stock, common, . Current liabilities: —							\$5,000 00
Capital stock, common, . Current liabilities: — Accounts payable, .							\$5,000 00 75,055 29
Capital stock, common, . Current liabilities: —	s.				· · ·		\$5,000 00
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits,				•	· · · · · · · · · · · · · · · · · · ·		\$5,000 00 75,055 29
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits,			· · · Loss A	Accor			\$5,000 00 75,055 29 \$80,055 29
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits,		·	· ·	Accor	Dr.		\$5,000 00 75,055 29
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits, Pro Balance from previous year,			· Loss A	·	Dr. \$10,308		\$5,000 00 75,055 29
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits, Pro Balance from previous year, Operating expenses,	·		Loss A	Accor	Dr.		\$5,000 00 75,055 29 \$80,055 29
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits, Pro Balance from previous year, Operating expenses, Gross earnings from operation,	·		· · · Loss A	Accor	Dr. \$10,308		\$5,000 00 75,055 29 \$80,055 29 Cr. \$334,518 78
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits, Pro Balance from previous year, Operating expenses,	·	· · · · · · · · · · · · · · · · · · ·	· · · Loss A	Accor	Dr. \$10,308		\$5,000 00 75,055 29 \$80,055 29
Capital stock, common, . Current liabilities: — Accounts payable, . Total credits, Pro Balance from previous year, Operating expenses, Gross earnings from operation,	·		Loss A	Accor	Dr. \$10,308		\$5,000 00 75,055 29 \$80,055 29 Cr. \$334,518 78

TELEPOST COMPANY OF MASSACHUSETTS.

Location of principal business office: 32 Causeway Street, Boston, Mass.

Date of organization: Feb. 10, 1909. Date of incorporation: Feb. 10, 1909.

State in which incorporated: Massachusetts.

Date of annual meeting: second Tuesday in February. Date when company began to give service: July 1, 1909.

Service is given by this company over its own lines in Boston.

GENERAL OFFICERS AND OFFICIAL TITLES.

Harvey Lee Sell	lers, .			President.

Robert Henry Sellers, Secretary and Treasurer.

Louis Solomon, Clerk.

DIRECTORS AND RESIDENCES.

Harvey Lee Sellers, .			Montclair, N. J.
Robert Henry Sellers,			Montclair, N. J.

Upper Montclair, N. J. Thomas Conyngton, .

CAPITAL.

Capital authorized by charter,			\$10,000 00
Capital authorized by vote of company, .			10,000 00
Capital paid in, 100 shares; par value, \$100,			10,000 00

Whole number of stockholders, .					3
Number of stockholders resident in M	assa	chus	etts,		None.

Amount of stock held by parent telephone company (shares),

98

DEBTS.

Bonds or notes issued, viz .: --

DATE.	When due.		н	ow se	ecure	i.		Rat Inte (P Cen	rest	Amount.
Feb. 14, 1911	Feb. 14, 1921	-		-			-	-		\$10,000 00
Total amo	ount of bonds ar	nd notes,								\$10,000 00
Capital paid i	n,									10,000 00
Total liab	ility for capital	and loans,								\$20,000 00

CONDENSED STATEMENT OF OPERATING FOR THE YEAR.

						Item	ıs.	Total	3.
tion,								\$1,598	88
						\$366	85		
						1,638	55		
						244	14		
		•	•	•	 		—	2,249	54
	•		· · · · · · · · · · · · · · · · · · ·	· · · · ·			sion,	\$366 85 1,638 55 	cion,

Deficit for year ending June 30, 1911, . \$650 66

. . . \$20,000 00

No. 54.]
Gross earnings: Telegraph serv Press service,
Total gross
General expense:
Postage, printi
Miscellaneous
Travelling, .
Taxes, .
Total genera
Operating: —
Superintenden
Wages of opera
Wages of othe
Wages of mess
Rent, light and

Total credits, . .

Gross earnings: —										m . 1
ma 1 1 1								Items.		Totals.
Telegraph service,		•	•	•	•	•	•	•	•	\$1,190 55
Press service, .	•	•	•	•	•	•	•	•	•	408 33
Total gross earr	nings	from	ope	ation,						\$1,598 88
				Expe						
General expense: —				EXPE.	NSES.	•				
Postage, printing	and s	tatio	nery	, .				\$13	14	
Miscellaneous offic	ce exp	ense	s,					105	73	
Travelling, .									82	
Taxes, .								247	16	
Total general ex	xpense	Э,								\$366 85
Operating: -										
Superintendence,								\$111	11	
Wages of operator	rs,							795	88	
Wages of others,								108	37	
Wages of messeng	gers,							262	81	
Rent, light and he	eat,							304	50	
Incidental, .								55	88	
Total operating	expe	nse,				. –				1,638 55
Current repairs,	•	•							•	244 14
Total of all ope	rating	g exp	enses	s, .						\$2,249 54
		GE	NERA	L BAL	ANCE	в Ѕне	ET.			
	Asse	ets.								
Overhead lines,	Asse	ets.						\$100	00	
Overhead lines, Underground lines,		ets.		:				\$100 4,939		
		ets. •							49	
Underground lines,								4,939	49 00	
Underground lines, Equipment, .	fixtur	es,						4,939 250	49 00	\$ 5,6 4 9 59
Underground lines, Equipment, . Office furniture and	fixtur	es,				· · ·		4,939 250	49 00	\$5,649 59 10,000 00
Underground lines, Equipment, Office furniture and Total plant acc	fixtur	es,						4,939 250	49 00	
Underground lines, Equipment, . Office furniture and Total plant acc Contracts and licens Current assets: — Cash on hand,	fixtur fount, ses,	es,	:					4,939 250	49 00 10	
Underground lines, Equipment, . Office furniture and Total plant acc Contracts and licens Current assets: — Cash on hand,	fixtur fount, ses,	es,	ole,			:		4,939 250 360	49 00 10	
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets:—	fixtur ount, ses,	es,				· · · · · · · · · · · · · · · · · ·		4,939 250 360 \$35 2,238	49 00 10	
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets: Cash on hand, Notes and account	fixtur ount, ses,	eival						4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets:— Cash on hand, Notes and accoun Supplies on hand,	fixtur ount, ses,	eival					•	4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	10,000 00
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets:— Cash on hand, Notes and accoun Supplies on hand,	fixtur ount, ses,	eival						4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	10,000 00
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets: — Cash on hand, Notes and accoun Supplies on hand, Total current a	fixtur ount, ses,	eival					:	4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	2,310 88
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets:— Cash on hand, Notes and accoun Supplies on hand, Total current a	fixtur ount, ses,	eival					:	4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	2,310 88 \$17,960 47
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets: Cash on hand, Notes and accoun Supplies on hand, Total current a Total assets, Balance, deficit,	fixtur ount, ses,	eival						4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	2,310 88 \$17,960 47 2,039 53
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets: Cash on hand, Notes and accoun Supplies on hand, Total current a Total assets, Balance, deficit,	fixtur ount, ses,	eival	:					4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	2,310 88 \$17,960 47 2,039 53
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets: Cash on hand, Notes and accoun Supplies on hand, Total current a Total assets, Balance, deficit,	fixtur ount, ses,	ees,	:				:	4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	2,310 88 \$17,960 47 2,039 53
Underground lines, Equipment, Office furniture and Total plant acc Contracts and licens Current assets:— Cash on hand, Notes and accoun Supplies on hand, Total current a Total assets, Balance, deficit, Total debits, Capital stock, comm	fixtur ount, sees, .tts rec, sssets,	eival	:				:	4,939 250 360 \$35 2,238	49 00 10 ————————————————————————————————	2,310 88 \$17,960 47 2,039 53 \$20,000 00

EARNINGS.

		_	
PROFIT	AND	Lines	ACCOUNT.

				Dr.		Cr.	
Balance from previous yes	ar,			\$1,388	87		
Operating expenses, .				2,249	54		
Gross earnings from opera	tion,					\$1,598	88
Balance, deficit, .						2,039	53
				\$3,638		\$3,638	41

PROPERTY ACCOUNTS (ADDITIONS AND DEDUCTIONS DURING THE YEAR).

		Aa	ldition	ıs.			Items.	Totals.
Underground	lines,						\$1,728 89	
Equipment,							250 00	
Office furnitu	re and	fixt	ıres,				84 25	
Total add	ditions	3,				. —		\$2,063 14

UNITED TELEGRAM COMPANY.

Location of principal business office: 26 Congress Square, Boston, Mass.

Date of organization: June, 1890. Date of incorporation: June 16, 1890. State in which incorporated: New Jersey.

Date of annual meeting: first Wednesday in November. Date when company began to give service: June, 1890.

Service is given by this company over its own lines in the city of Boston.

GENERAL OFFICERS AND OFFICIAL TITLES.

Charles F. Parker,	
Walter L. Sanborn,	lent.
L. Wallace Sweetser,	
G. L. Ellwood, Assistant T	reasurer.

DIRECTORS AND RESIDENCES.

Charles F. Parker,			. =	Boston, Mass.
Walter L. Sanborn,				Newton, Mass.
L. W. Sweetser,.				Wakefield, Mass.
Carl C. Lane, .				Quincy, Mass.
Walter E. Severance,				Dorchester, Mass.
Stewart F. Martin,				Jamaica Plain, Mass.
Lewis C. Harris,				Newark, N. J.

CAPITAL.

Capital authorized by charter,				\$500,000 00
Capital authorized by vote of company,				50,000 00
Capital paid in, 10,000 shares; par value,	\$5,			50,000 00

Whole number of stockholders,		75
Number of stockholders resident in Massachusetts,		30
Amount of stock held in Massachusetts (shares),		6,969

. . \$11,805 31

DEBTS.

Bonds or notes issued, viz.: —

Amount carried forward, . . .

DATE.	When due.			How	7 secu	red.		In (te of terest Per ent.).	Amount.
July 1, 1890	July 1, 1920	Inco	me b	onds,		• •			5	\$200,000 00
Total amo	unt of bonds and	l note	з,							\$200,000 00
Capital paid in	n,									50,000 00
	lity for capital a	nd lo	ans,				, .		.	\$250,000 00
	CONDENSED S	STATE	EMEN	T OF	OPE	RATIN				
D (1	tems	•	Totals.
	m operation,	•	•	•	•	•				\$42,924 43
General exp		•	•	•	•	•		,805		
Operating ex Current repa		•	•	•	•	•		,916		
Rented lines		•	•	•	•	•		,300		
	rpenses, .	•	•	•	•	•	110	,916	04	40.020 55
10tal e	cpenses, .	•	•	•	•	. –				40,938 57
Net rev	enue from ope	ratio	n,							\$1,985 86
Miscellaneou	ıs income,	•	•	٠	•	•	-	٠	•	1,345 44
Surplus	for year endir	ıg Ju	ne 30), 191	1,					\$3,331 30
		- 1								
				EARN	INGS					
	gs from opera	tion:								
	d markets,	•		•		٠.				\$42,924 43
	ıs income: —									
Interest of	n deposits,	•	•	•	٠	•	٠	•	٠	1,345 44
Total gr	ross earnings a	ınd ir	com	e,						\$44,269 87
				Expe	NSES					
General exp	ense: —									
Salaries of	officers,						\$5	,000	04	
Wages of				•-			3	,265	00	
Postage, p	orinting and st	ation	ery,					905	53	
	expenses,							27	00	
Legal, .								152		
Rent of la	nd and buildi	ngs,					1	,750	04	
	,	•						60	00	
PACE .								215	80	
Taxes,										
General e								429	90	

					Items.	Totals.
Amount brought forward,						\$11,805 31
0						
Operating: —					81 000 00	
Superintendence, Wages of operators, .	•	•	•	•	\$1,900 00	
Wages of others,	•	•	•	•	5,504 79	
WD 1 1 1	•	•	•	•	1,707 31	
****	•	•	•	•	84 03	
Incidental,	•	•	•	•	361 72	
Total operating expense,	•	•	•	•	358 7 7	0.010.00
Current repair: —	•	٠	•			9,916 62
Repairs overhead lines, .					0400 00	
Repairs underground lines,		•	•	•	\$480 00	
Repairs instruments and bat		•	•		480 00	
Total current repairs,	teries,	•	•	•	2,340 00	9 900-00
Ponted lines	•	•	•	. –		3,300 00
Rented lines,	•	•	•	•		15,916 64
Total of all operating expe	nses,					\$4 0,938 57
GE	NERAI	L BA	LANCE	SHE	ET.	
Assets.						
Equipment,					\$9,195 00	
Tickers,					19,897 25	
Franchise,					80,000 00	
Ticker rights,					104,642 02	
Total plant account, .				<u>.</u>		\$213,734 27
Current assets: —						0220,.00
Cash on hand,						3,727 03
Sinking and other special fund						.,
Funds in escrow,						35,000 00
					· · · · · -	
Total debits,						\$252,461 30
Liabilities	3.					
Capital stock, common, .						\$50,000 00
Bonded debt,	. 2					200,000 00
Current liabilities: —						
Dividends not called for,						537 50
,					-	
Total liabilities, .						\$250,537 50
Balance, surplus,						1,923 80
					-	*****
Total credits,	•	•	•	•		\$252,461 30
P			r (
PRO	FIT A	ND .	Loss A	rccon	NT. Dr.	Cr.
Balance from previous year,						\$2,372 39
Gross earnings from operation,						42,924 43
Miscellaneous income, .						1,345 44
Operating expenses,					\$40,938 57	
For depreciation: —						
Ticker rights,					3,779 89	
Balance, surplus,					1,923 80	
					040,040,00	040,040,00
					\$46,642 26	\$46,642 26
PROPERTY ACCOUNT	NTS (]	DED	UCTION	S DU	RING THE YEAR	
Ticker rights,						\$ 3,779 89

THE WESTERN UNION TELEGRAPH COMPANY.

Location of principal business office: 195 Broadway, New York, N. Y.

Date of organization: April 1, 1851. Date of incorporation: April 1, 1851. State in which incorporated: New York.

Date of annual meeting: second Wednesday in October. Date when company began to give service: April, 1851.

GENERAL OFFICERS AND OFFICIAL TITLES.

Theodore N. Vail,						President.
Newcomb Carlton,						Vice-President.
J. B. Van Every,						Vice-President.
Thomas F. Clark.						Vice-President.
G. W. E. Atkins.						Vice-President.
Belvidere Brooks.						General Manager.
A. R. Brewer, .	٠.					Treasurer.
E. Y. Gallaher.						Auditor.
Rush Taggart, .						General Counsel.
George H. Fearons.						General Attorney.
John F. Dillon, .						Consulting Counsel.
Francis N. Whitney			į			m Au
T. W. Carroll	,					Assistant to General Manager.
F. W. Lienau, .						Assistant Secretary.
Lewis Dresdner.						Assistant Treasurer.
H. W. Ladd.						Assistant Auditor.
G. M. Yorke	Ċ					Engineer.
W. E. Athearn.						Engineer of Equipment.
Robert E. Chetwoo						Engineer of Construction.
W. N. Fashbaugh.	_,		Ċ		·	Traffic Engineer.
Wm. Holmes.			i.		ij	Superintendent, Tariff Bureau.
H. E. Roberts	Ċ		Ċ		ij	General Purchasing Agent.
Wm. G. Higgins,			·			Superintendent, Supplies.
S. M. Williams.			Ċ			Manager, C. N. D.
W. J. Dealy.				·	i	General Superintendent, C.N.D.
E. G. Carley, .			Ċ	·		General Transfer Agent.
A. G. Saylor, .			·		ij	General Superintendent, Eastern
12. Gt Day 101,		•				Division, New York, N. Y.
C. F. Ames.						District Superintendent, Boston.
						Mass.

DIRECTORS.

Oliver Ames,
John Jacob Astor,
Union N. Bethell,
Henry A. Bishop,
Robert C. Clowry,
Henry P. Davison,
Chauncey M. Depew,
Harris C. Fahnestock,
Henry M. Flagler,
Robert M. Gallaway,
Edwin Gould,
George J. Gould,
Edward J. Hall,
Henry S. Howe,
Thomas H. Hubbard,

Edward T. Jeffery,
Charles Lanier,
Robert S. Lovett,
John J. Mitchell,
William H. Moore,
J. Pierpont Morgan,
Jacob H. Schiff,
Joseph J. Slocum,
James Stillman,
Harry B. Thayer,
Theo. N. Vail,
Henry Walters,
John I. Waterbury,
Robert Winsor.

CAPITAL.

Capital authorized by charter,			\$100,000,000 00
Capital authorized by vote of company,			. 100,000,000 00
Capital paid in, 998,171 shares; par value,	\$100,		. 99,817,100 00
Whole number of stockholders,			. 12,461

DEBTS.

Bonds or notes issued, viz.: -

DATE.	When due.	Н	ow secu	red.		Inte	te of erest erest	Amount.
Sundry dates since 1900	May 1, 1950	Funding mortg		41/2	\$20,000,000			
Sundry dates since 1888	Jan. 1, 1938	Collaters (i s s u c o m p	al trus ed \$8, any's	t bo:		5	8,707,000	
Sundry dates since 1906	Nov. 1, 1936	000; in		ny's tr	000,-		4	8,000,000
Total amount of bone	ls and notes,							\$36,707,000
Capital paid in,								99,817,100
Total liability for cap	ital and loans,							\$136,524,100

CONDENSED STATEMENT OF OPERATING FOR THE YEAR (WHOLE SYSTEM).

							Ite	ms.		Totals.	
Gross earnings from	ope	ration	, 1 .				\$35,47	8,792	88		
Paid other lines, ref	funde	ed and	d unc	ollecte	ed,		919	793	92		
Revenue from	opera	ation,								\$34,558,998	96
General expense,							\$13,554	1,962	19		
Operating expense,							8,929	070	81		
Current repair,						٠.	3,051	,695	06		
Reconstruction,							1,602	2,924	88		
Deferred maintenan	ice,						133	5,000	00		
Royalties and rente	d lin	es,					1,686	5,585	80		
Total expenses,	•	•	•	•	•	• -			-	28,960,238	74
Net revenue fro	om o	perati	on,							\$5,598,760	22
Miscellaneous incom	ie,	•	•	•	•	•	•	•	٠	1,680,196	23
									•		
Total income a	bove	exper	ise,	•		•			٠	\$7,278,956	45
Amount carried	foru	ard,								\$7,278,956	45

¹ Gross earnings in Massachusetts, \$84,004.07.

		Items.		Totals.	
Amount brought forward,				\$7,278,956	
				, , ,	
Fixed charges:—					
Interest on funded debt,		\$1,733,389			
Interest on floating debt,	•	173,598	97		
Total fixed charges,				1,906,988	49
Surplus of net income above fixed charges,				\$5,371,967	96
Dividends paid,				2,991,304	
Surplus for year ending June 30, 1911,				\$2,380,663	46
T. T	C				
EARNINGS (WHOLE	SYS	TEM).			
Gross earnings from operation: —		enc 014 004	177		
Telegraph and cable service, Other lines, refunded and uncollected, .		\$28,214,334			
Stocks and markets	•	919,793			
Money transfers,	•	1,519,767			
Messenger service,	•	467,709 156,371	10		
	•	100,071	92		
Leased wires,	•	2,160,980			
Time service,		1,743,562			
Election returns and miscellaneous,	•	249,672	32		
Election returns and miscenaneous, .	•	46,601			00
Other lines, refunded and uncollected, .				\$35,478,792 919,793	
Total gross earnings from operation, .				@24 EEO 000	00
Miscellaneous income,	:			\$34,558,998 1,680,196	
			-		
Total gross earnings and income, .	•		•	\$36,239,195	19
Expenses (Whole	Sys	TEM).			
General expense: —		,			
Salaries of officers and wages of clerks, .		\$13,554,962	19		
Printing and stationery,		504,791			
Miscellaneous expenses and taxes,		2,057,607	34		
Travelling and tax expenses,		42,654	29		
Damages,		176,366	20		
Legal,		157,922	44		
Paid railroad companies,		1,135,071	96		
Rent of buildings and offices,		1,133,552	22		
Depreciation ocean cables,		135,000	00		
Total general expense,				\$18,897,927	67
Operating: —					
Superintendence,		\$410,367	56		
Superintendence,		2,433,943			
Telephone charges and commissions, .		31,103	47		
Light and heat,		245,205	03		
Obtaining stock and commercial news reports	S, .	217,652	83		
Total operating expense,	•		-	3,338,271	91
Amount carried forward,				\$22,236,199	5 8

	Items.	m-v-1
Amount brought forward,		Totals. \$22,236,199 58
	•	Ψ22,200,133 90
Current repair: —		
Repairs overhead, underground and sub- marine lines,	\$2,266,997 93	
Repairs instruments and batteries,	784,697 13	
Office repairs and furniture,	374,438 99	
Total current repairs,		3,426,134 05
Royalties and rented lines,		1,686,585 80
Total expenses, not including charges for rec		
Reconstruction items charged to expense:—		. \$27,348,919 43
Repairs overhead and underground lines,		1,602,924 88
Deferred maintenance items charged to expense: -	-	
Extinguishment of patents,		8,394 43
Total of all operating expenses,		. \$28,960,238 74
GENERAL BALANCE SE	HEET.	· ·
Assets.		
Property account: —		
Telegraph lines and equipment, including		
properties controlled by stock ownership or held under perpetual leases and merged in		
	\$131,503,226 07	,
Real estate,	5,913,875 67	
Patents,	106,957 30)
Amount recoverable on the expiration of long		
term lease in respect of obligations assumed thereunder,	1,180,000 00	
victoriatory		- \$138,704,059 04
Other securities owned: —		
Stock of telegraph, cable and other allied com-		
panies operated under term leases (not in- cluding securities held as lessee, amounting		
to a par value of \$2,236,642),	\$6,263,453 19)
Stock of telegraph, cable and other allied com-		
panies not leased,	4,878,583 08	
Sinking fund (cash and securities),	33,889 43 356,728 26	
Purchase money, notes and obligations,	16,500,000 00	
2 distant morely, notes and so-garden,		- 28,032,653 96
Inventories of materials and supplies,		. 2,431,644 13
Current assets: —		
Bills and accounts receivable, including managers' and superintendents' balances, etc. (less		
reserve for doubtful accounts),	\$5,092,297 71	
Treasurer's balances, including cash at banks		
at New York and outside depositories and in	1 500 400 55	,
transit,	1,599,488 57	- 6,691,786 28
Total,		\$175,860,143 41
10000		, , , , , , , , , , , , , , , , , , , ,

Liabilities. Items.	Totals.
Capital stock issued, \$99,817,100	00
Less held in treasury,	
	- \$99,786,968 49
Capital stock of subsidiary companies not	
owned by the Western Union Telegraph	
Company (par value):—	00
Companies controlled by perpetual leases, \$3,435,475 (Companies controlled by stock ownership, 458,000 (
Companies controlled by stock ownership,	- 3,893,475 00
Funded debt:—	-,,
Bonds of the Western Union Telegraph Com-	
pany 4½ per cent. funding and real estate	
mortgage fifty-year gold bonds, 1950, \$20,000,000)0
Convertible 4 per cent. re-	
deemablegold bonds, 1936, \$10,000,000 00 Less held in treasury, 2,000,000 00	
8,000,000 (0	00
Collateral 5 per cent. trust	
bonds, 1936, \$8,725,000 00	
Less held in treasury, . 18,000 00	
8,707,000	00
Bonds of subsidiary com-	
panies assumed or guar-	
anteed by the Western Union Telegraph Com-	
pany, \$7,000,000 00	
Less held in treasury, 3,123,000 00	
	00
	— 40,584,000 00
Total capital liabilities,	\$144,264,443 49
201111 0112-11111011101000, , , , , , , , , ,	
Temporary loan partly secured by deposit of treasury bonds,	. \$3,500,000 00
Current liabilities: —	
Accounts payable, \$1,985,023	
Accrued taxes,	59
Interest and guaranteed dividends accrued on bonds and stocks,	77
Unpaid dividends (including dividend of \$747,-	' ·
886.50 payable July 15, 1911),	98
	→ 3,8 7 5,494 59
Deferred non-interest bearing liabilities, in respect of proceeds	
sales of securities and other properties held under leases, i	
terms expiring in 1981 from lessee companies in which t	he
Western Union Telegraph Company has a controlling into	
est, payable only on the determination of the leases, .	. 12,382,901 30
Reserves: —	. 12,382,901 30
	. 12,382,901 30 94
Reserves: — For maintenance of cables, \$1,333,220 For contingencies, 389,727	. 12,382,901 30 94
Reserves: — For maintenance of cables, \$1,333,220 For contingencies, 389,727 Surplus: —	. 12,382,901 30 94 11 — 1,722,948 05
Reserves: — For maintenance of cables, \$1,333,220 For contingencies, 389,727 Surplus: — Balance stated on annual report of June 30, 1910, \$7,733,692	. 12,382,901 30 94 11 — 1,722,948 05 52
Reserves: — For maintenance of cables, \$1,333,220 For contingencies, 389,727 Surplus: —	. 12,382,901 30 94 11 — 1,722,948 05 52 46
Reserves: — For maintenance of cables, \$1,333,220 For contingencies, 389,727 Surplus: — Balance stated on annual report of June 30, 1910, \$7,733,692	. 12,382,901 30 94 11 — 1,722,948 05 52

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Note. — "There are over one thousand offices in the State of Massachusetts."



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